

# PRODUCT GUIDE



## CONSTRUCTION chemical

Customer Care : +91 79 26423363    Web : [www.jaychemical.com](http://www.jaychemical.com)    Email : [infok2@jaychemical.com](mailto:infok2@jaychemical.com)

### HEAD OFFICE

Jay House, Panchvati Circle, Ambawadi, Ahmedabad - 38000 006. Gujarat, India.

### WORKS – SANAND

263/P, Uma Industrial Estate (IYAVA), Vasna, Sanand, Ahmedabad - 382 110. Gujarat, India.

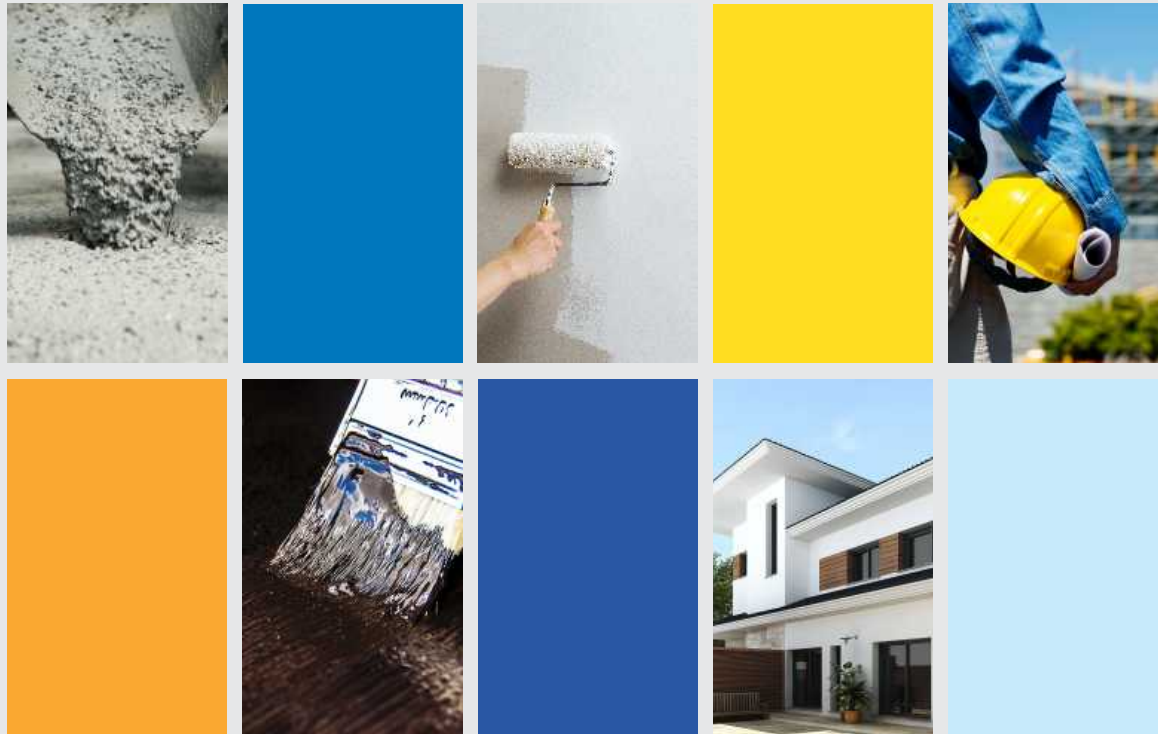


the above said information / guideline are for general purpose\*

new space for  
**CONSTRUCTION**

**K2**<sup>®</sup>  
 RESTRUCTURING KONSTRUCTION. KEMICALLY

Quality Products



# RESTRUCTURING KONSTRUCTION KEMICALLY

water-proofing chemicals • grouts  
 plasticizer • tile adhesives • joint fillers • epoxy bonding-agents

**K2**<sup>®</sup>  
 RESTRUCTURING KONSTRUCTION. KEMICALLY

Looking at renewed opportunities and taking ahead four decades of experience in manufacturing and marketing, JAY CHEMICAL INDUSTRIES LTD. launched its construction chemicals division under the brand name of K2, and successfully marketing accross the country.

Apply tagged as 'Restructuring Konstruction Kemically', JCIL's K2 is poised to bring its expertise to different construction chemicals ranging from water-proofing chemicals, grouts, plasticizer, tile adhesives, joint fillers and epoxy bonding-agents to name a few.

K2 products are manufactured at JCIL's plant at sanand, gujarat using an array of advanced equipments and systems. the general benchmark of quality is extremely high and stringent as R&D is a continuous process, as is quality control. K2's superior quality production is finally a result of infrastructure, technology and technically skilled professionals.



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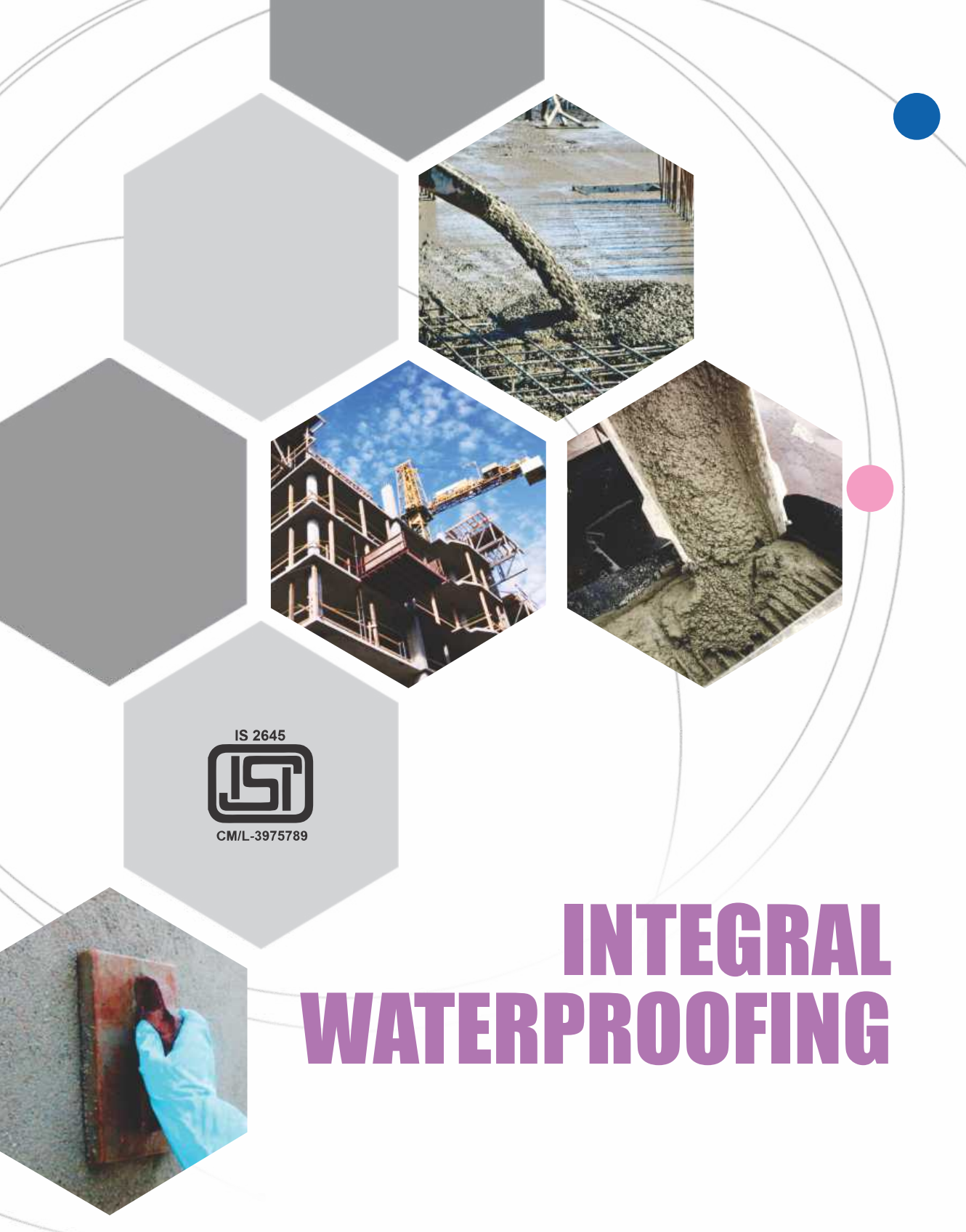
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# INTEGRAL WATERPROOFING

## K2 LIGNOPROOF WLC

LIGNOSULFONATE BASED  
INTEGRAL WATERPROOFING LIQUID  
ADMIXTURE FOR CONCRETE & MORTAR



**DESCRIPTION:** Minimises permeability and effectively waterproofs concrete & cement sand mortars for applications like roof slabs & screeds, basements, external plastering, bathroom floors, water tanks, sumps, drains and all water retaining bodies.

**BENEFITS :**

- \* Liquid state ensures instant, complete dispersion and uniform waterproofing throughout concrete matrix.
- \* Improves workability and compaction of concrete & mortar, even in unmonitored site conditions.
- \* Minimises porosity and honey combing. produces dense, homogenous, quality concrete and reduction in permeability of concrete/mortar.
- \* Effectively reduces bleeding and segregation.

**STANDARDS :** K2 LIGNOPROOF WLC conforms to IS: 2645-2003.

**PROPERTIES :**

- \* **Color :** Dark brown liquid
- \* **Chloride content :** Maximum 0.05 %
- \* **Compatibility :** Can be used with all types of cements, including pozzolanic but not high alimina/fast setting cement
- \* **Permeability to water :** Less then 15% as compared to 50% max. allowable under IS: 2645-2003
- \* **Setting time :** No significant effect on setting time of concrete or mortar
- \* **Compressive strength :** Maintains compressive strength and can even improve on strength property if full advantage of water reduction potential is utilized
- \* **Workability :** Improves workability at reduced water cement ratio

**APPLICATION INSTRUCTIONS :**

**Mortar :** K2 LIGNOPROOF WLC is ideal for use with all sand/cement mortars where minimum permeability is required.

**Concrete :** K2 LIGNOPROOF WLC is used in all general mass concrete works where, difficulty of compaction or mix control, the risk of porosity and permeability exists. Eg. basement, bunds walls, tanks, balcony, floor and roof slabs.

**DOSAGE :**

- \* The minimum dosage is 100 ml and the maximum is 200ml per 50kgs of cement. if maximum dosage is used a minimum of 15% water should be reduced to ensure no loss in strength.
- \* K2 LIGNOPROOF WLC is measured and stirred into the dosing water.
- \* K2 LIGNOPROOF WLC water mixture shall be added to the concrete or mortar and mixed thoroughly. mixing shall be continued and further water shall be added until the required work ability is obtained.
- \* The total amount of water added per mix in the initial batches shall be maintained for the remaining batches.
- \* If the moisture content of the sand or aggregate changes, then the amount of water used must be reduced or increased to give the original workability.

**PACKING :** K2 LIGNOPROOF WLC is available in 1liter, 5 liter, 10 liter, 20 liter & 200 liter pack.

**SHELF LIFE & STORAGE:** K2 LIGNOPROOF WLC has a minimum shelf life of 12 months, if kept in a dry store in unopened condition.



# K2 CONPROOF PLUS

INTEGRAL WATERPROOFING  
LIQUID ADMIXTURE FOR  
CONCRETE & MORTAR



**DESCRIPTION :** K2 CONPROOF PLUS is an integral waterproofing liquid admixture for concrete & mortar. it reacts in concrete with the cement during the hydration process to form a hydrophobic coating on the voids in concrete which reduces the capillary suction & minimizes water percolation. it contains pore filling agents which fill up the micro porosities in the concrete and mortar, also avoids segregation and bleeding of fresh concrete. considerable reduction in capillary pores within concrete, reduces permeability & improves concrete durability. Increased durability & water tightness of concrete protects it against the ingress of dampness, chlorides & other aggressive chemical attacks.

**AREA OF APPLICATION:** K2 CONPROOF PLUS can be used for all concrete and mortars works where water proofing is pre requisite. it can be used for basements, roof slabs, screeds, water tank, water retaining structures, bathrooms, balconies, sumps, drains, retaining wall, external and internal plasters etc.

#### BENEFITS :

- \* Liquid state, easily dispersible & compatible with concrete and mortar mix.
- \* Reduces mortar dropping, when used in plaster.
- \* Minimizes porosity and honey combing, produces dense, homogenous, quality concrete and reduction in permeability of concrete and mortar.
- \* Reduces shrinkage crack development in plaster & concrete.
- \* Ensures perfect watertight structure.
- \* Improves workability of concrete.
- \* Improves strength of concrete and mortar.

#### TECHNICAL INFORMATION :

- \* **Appearance :** Light brown color liquid
- \* **PH at 25°C :** 6 ± 1
- \* **Chloride content :** < 0.1 % as per IS 2645
- \* **Water permeability :** Max 50 %

**STANDARD :** K2 CONPROOF PLUS conforming to IS 2645-2003

#### APPLICATION INSTRUCTION :

- \* Add cement & aggregates to concrete mixer as per the mix design, mix in dry state for 1–2 minutes.
- \* Start addition of 75–80% mixing water & mix for 2-3 minutes.
- \* K2 CONPROOF PLUS is added as per the recommended dosage into the remaining mixing / gauging water. then add to concrete mixer & mix for another 2 minutes.
- \* Place the concrete or apply plaster, as needed.
- \* Cure the applied mortar or concrete as per good construction practices.

#### LIMITATIONS :

- \* Maintain water-cement ratio as low as possible.
- \* Do not increase the dosage of K2 CONPROOF PLUS than the recommendation.
- \* Do not add K2 CONPROOF PLUS directly to dry cement & aggregate mix.

**DOSAGE :** 200 ml per 50 kg bag of cement.

**PACKING :** K2 CONPROOF PLUS is available in 200 ml, 1 liter, 5 liter, 10 liter, 20 liter & 200 liter pack.

**SHELF LIFE & STORAGE :** Shelf life is 24 months from the date of manufacturing. store the material in cool and dry place. keep away from direct sunlight and heat.



# K2 DRYPROOF WPC

REDUCES PERMEABILITY CONCRETE  
AND SAND - CEMENT MORTAR



**DESCRIPTION :** K2 DRYPROOF WPC powder is a fine, white powder ready for use with concrete or cement mortar mixes. it is a classical admixture to fill natural pores in the concrete or mortar matrix and reduces porosity to improve water tightness.

#### BENEFITS :

- \* User friendly simple application familiar to site operation.
- \* Traditional quality water proofing material manufactured to present standards.
- \* Easy and improved workability.

**STANDARDS :** K2 DRYPROOF WPC powder conforms to IS : 2645 - 2003.

#### PROPERTIES :

- \* **Chloride content :** NIL.
- \* Compatible with all cements including pozzolonic cements. has very low permeability.
- \* **Setting Time :** K2 DRYPROOF WPC powder conforms to IS : 2645-2003 for initial and final set of concrete. it has no specific effect on the compressive strength of concrete or sand/cement mortar.

**AREAS OF APPLICATION :** K2 DRYPROOF WPC powder is suitable for use with sand/cement mortars where reduce permeability is required. it can also be used in external plastering of roof and balcony screeds, water retaining structures, plastering of basements and tanks, external masonry walls. K2 DRYPROOF WPC powder is used with concrete mixes where it is required to reduce permeability.

**NOTE :** Where water bleeding or segregation proves difficult to manage, or in mass pours where economy and efficiency of compaction and water tightness is essential. K2 LIGNOPROOF WLC liquid water proofing compound is recommended.

#### APPLICATION METHOD :

**Dosage :** 1 kg of K2 DRYPROOF WPC powder for every 50 kg bag of cement normal concrete and sand/cement mortar mixes.

#### Hand Mixing :

- \* Mix measured quantity of sand/aggregate followed by the cement.
- \* Spread the correct quantity of K2 DRYPROOF WPC powder evenly over the cement.
- \* Mix the dry materials until homogeneous.
- \* Add the normal measured quantity of water and mix as usual.

#### Mechanical Mixing :

- \* Mix continuously measured quantity of sand/aggregate into the mixer machine.
- \* Add the cement and spread the correct quantity of K2 DRYPROOF WPC powder at the same time.
- \* Mix the dry materials for at least 2 minutes.
- \* Add the normal measured quantity of water and mix to completion.

**PACKING :** K2 DRYPROOF WPC powder is available in 1 kg pouch.

**SHELF LIFE & STORAGE :** K2 DRYPROOF WPC powder has a shelf life of 12 months in unopened packs when stored under normal and dry conditions.





# WATERPROOF COATING

## K2 BOND SBR | Styrene Butadiene Rubber Based Waterproof Coating, Repairs And Bonding Agent For Concrete & Mortar

**DESCRIPTION :** K2 BOND SBR is a modified styrene butadiene rubber based polymeric compound designed for use with cement matrix. It is used for high performance application in waterproofing and repair. It bonds strongly to old & new concrete and to plasters. It is used with cement as a reliable water resistant bonding agent. It is designed to improve the physical, mechanical and chemical resistance properties in the fresh and hardened stage.

**AREA OF APPLICATION :** K2 BOND SBR is used as a bonding agent between old & new concrete, for cementitious substrates, waterproof coating to small areas in bathrooms, balconies, basements, water tanks, swimming pools, retaining walls, bridge wall, tunnels, industrial floors, dams, fountains, terraces & roofs. It is also effective to make repair mortars & concrete in building rehab works.

### BENEFITS :

- \* Very good adhesion to concrete surface.
- \* Economical and excellent water proofing coating.
- \* Excellent adhesion to reinforcement and concrete.
- \* Increases flexural strength & tensile strength of concrete & mortar.
- \* Reduces shrinkage & water permeability in concrete & mortar.
- \* Good as a bonding agent in repairs & renovations.
- \* Improves abrasion resistance of the cement mix.
- \* Reduces viscosity of cement injection grout for better fluidity & bonding.
- \* Single component liquid which improves cohesion and workability and easily gauged as required.
- \* Hydrolysis resistant and is ideal for internal and external application with cement.
- \* Free from chloride admixtures, improve the quality of site batched cementitious mortar and slurries.

### TECHNICAL INFORMATION :

SR.NO.	PROPERTIES	RESULTS
1	Composition	Styrene butadiene rubber
2	Appearance	Milky white color liquid
3	Specific gravity	1.01 ± 0.02
4	pH Value	7 To 9
5	Solid	35 %
6	Compatibility	Compatible with all grades of cement

### APPLICATION INSTRUCTION :

#### Surface preparation

- \* Clean the surface with wire brush or scrubber to remove hidden dirt, loose particles, laitance & dust, degrease the surface by using suitable K2 MULTI CLEAN / K2 SOFT CLEAN.
- \* Repair the spalled concrete portion by saw, cutting the extreme edges of the repair location to a depth of at least 10 mm to avoid featheredging & to provide strong bond.
- \* Clean the concrete surface to remove any contamination where breaking is not possible. Roughen the surface by light scrubbing or grit blasting.
- \* For priming of concrete substrate, the surface should be thoroughly saturated with potable water. Remove any excess of water prior to application.

#### Waterproofing coating

- \* For a waterproofing coating mix K2 BOND SBR: water : cement in the ratio 1:1:3 by volume mix for 2-3 minutes to avoid air entrapment. Keep on slowly adding cement to K2 BOND SBR until the required consistency is achieved.
- \* Brush apply 2 coats of the mix in a span of 4-6 hours on the prepared concrete substrate. Overlay the coating with a protective screed to the desired slope & thickness bonding primer.

**Bond coat**

- \* For a bonding primer coat of K2 BOND SBR: cement in the ratio 1:1 by volume.
- \* Brush apply 1 continuous coat of the mix on the prepared concrete substrate. ensure to overlay the repair mortar when the bond coat is still tacky.

**Repair mortars & renders**

- \* A suitable mix ratio for patching repair mortar or render is as follows: mix design - portland cement: 50 kg, washed sand: 150 kg, K2 BOND SBR: 6-7.5 liter & water: 10 liter.
- \* The minimum thickness of applied K2 BOND SBR mortar should be 6 mm and up to 40 mm.

**Floor screeds & pcc**

- \* A suitable mix ratio for patching repair mortar or render is as follows:
- \* Mix design - portland cement: 50 kg, washed sand: 75kg, 6mm downsize aggregates: 75 kg, K2 BOND SBR: 6-7.5 kg & water: 10 liter.
- \* The minimum thickness of applied K2 BOND SBR screed should be 10 mm and up to 40 mm.

**Mixing & application**

- \* A forced action mixer is essential (PAN Mixer) & recommended to ensure that K2 BOND SBR mortar is thoroughly mixed. use a suitable sized drum with heavy-duty electrical drill machine fitted with spiral paddle mixer at slow speed of 400-500 rpm.
- \* Hand mixing is permissible only for 25 kg or less quantity charge the mixer with required quantity of clean & dry sand(or coarse aggregates as needed), cement & mix for 1-2 minutes, then add the recommended dosage of K2 BOND SBR dispensed in water which is pre-batched. mix for 2-3 minutes to avoid air entrapment. keep on slowly adding water until the required consistency is achieved

**COVERAGE :**

- \* As a waterproofing coating 35 to 40 sq.ft. area in 2 coats for proportion mix 1:1:3 (K2 BOND SBR: water : cement).
- \* As a bonding agent 45 to 50 sq.ft. / kg per coat.( proportion mix 1:1- K2 BOND SBR : cement)

**PACKING :** K2 BOND SBR is available in 100 ml, 1 liter, 5 liter, 20 liter & 200 liter pack.

**SHELF LIFE AND STORAGE :** K2 BOND SBR has shelf life is 12 months from the date of manufacturing. store the material in cool and dry place. keep away from direct sunlight and heat.



# K2 POLYCRETE | SINGLE COMPONENT ACRYLIC POLYMER FOR CEMENTITIOUS WATERPROOF COMPOSITE COATING MEMBRANE

**DESCRIPTION:** Effective and economical solution to a waterproof concrete and masonry surface, by mixing with cement and application by brush.

**AREA OF APPLICATION:** Industrial floors, dams, water towers, tanks, tunnels and sewages, pools and fountains, reservoirs, roofs, terraces and balconies as a sandwich layer.

**BENEFITS :**

- \* User friendly, simple mixing and easy brush application for horizontal and vertical surfaces.
- \* Ensures a tough, impermeable waterproof membrane.
- \* Excellent adhesion to concrete and masonry surfaces.
- \* Protects concrete and mortar from wind, rain, sunlight.
- \* Breathable coating.

**PROPERTIES :**

- \* **Pot life at 30°C :** 30 minutes
- \* **Mixed density :** 1.8 g/cc
- \* **Application temperature :** Not less than 10°C
- \* **Toxicity :** Non-toxic
- \* **Concrete bond strength :** Approx. 1N/mm<sup>2</sup>

**APPLICATION INSTRUCTIONS :** All surfaces to be applied with K2 POLYCRETE must be thoroughly cleaned by a wire brush, to remove all dust, laitance or debris, free from oil, grease, wax or any other foreign matter which might affect, adhesion. spalled and deeply disintegrated concrete or mortar must be removed to a sound substrate and repaired suitably before coating.

**Mixing :** K2 POLYCRETE should be mixed with neat cement in the ratio of 1:1.5 to obtain a uniform and consistent slurry avoiding any lump formation. do not mix for more than two minutes. do not mix more than can be used within the pot life. retempering the mix with water should not be done. keep on mixing till the entire quantity is applied, so that solids do not settle at the bottom of the container.

Liquid	Neat cement
1kg	1.5kg
5kg	7.5kg

For optimum results, wet the surface before coating. apply the mix with a short, stiff bristle brush to an approximate thickness of 1 to 2 mm. K2 POLYCRETE surface must be protected from abrasion, rain or other adverse conditions for the first 12 hours of curing. no traffic shall be allowed within 48 hours after application. 2 coats of application of K2 POLYCRETE is required. first coat should be allowed to air dry for 5-6 hours. after application of the final coat, air dry for 2 to 6 hours. during this period water should not be used for curing. moist curing should be done for the next 24 hours by spraying water on K2 POLYCRETE coating. following moist curing, K2 POLYCRETE should be allowed to dry for three days before water logging.

**COVERAGE :** 1 liter of K2POLYCRETE will cover. 22-25 sq. ft. area in 2 coats for mix of 1 kg of K2 POLYCRETE and 1.5 kg of cement.

**PACKING :** K2 POLYCRETE is available in 1liter, 5 liter, 20 liter & 200 liter pack.

**SHELF LIFE AND STORAGE :** K2 POLYCRETE liquid has a shelf life of 12 months, when stored in unopened, normal conditions.



## K2 PRIMECRETE | STYRENE ACRYLIC COPOLYMER BASED WATERPROOF COATING

**DESCRIPTION :** K2 PRIMECRETE is a highly specialized styrene acrylic copolymer waterproofing compound designed for use with cement and ensure flexibility.

**AREA OF APPLICATION :** K2 PRIMECRETE is used in all structures that are required to be waterproof and protected ingress of moisture, like basements, water tanks, swimming pools, retaining walls, bridge wall, tunnels, lift shafts, industrial floors, dams, fountains, roofs, terraces and balconies.

### BENEFITS :

- \* Excellent waterproofing characteristics.
- \* Flexibility and UV resistant coating.
- \* Very good adhesion to concrete surface.
- \* Ease of application- brush applied.
- \* Economical and cost effective water proofing coating.

### TECHNICAL INFORMATION :

- \* **Composition :** Styrene acrylic copolymer
- \* **Appearance :** Milky white color liquid
- \* **Specific gravity :** 1.020 ± 0.010
- \* **Mixing ratio :** 1 liter K2 PRIMECRETE: 2 kg cement
- \* **Pot life at 30°C :** 30 minutes
- \* **Adhesion to concrete :** > 1N/mm<sup>2</sup>
- \* **Compatibility :** Compatible with all grades of cement

### APPLICATION INSTRUCTION :

**Surface preparation :** Prepare the surface thoroughly by cleaning, washing and removing dust, dirt, oil, grease and loose particles. repair the cracks up to 5 mm with K2 KRACK SEAL and cracks above 5 mm with K2 BOND SBR and modified mortar.

**Mixing :** K2 PRIMECRETE should be mixed with neat cement in the ratio of 1:2 to obtain uniform and consistent slurry avoiding any lump formation.

**APPLICATION :** The prepared surface must be thoroughly wetted with water for absorption and excess water to be removed. apply the first coat of K2 PRIMECRETE with the help of brush in a single direction and allowed to air dry for 5-6 hours. after application of second coat in perpendicular direction of first coat, air dry for 5-6 hours. K2 PRIMECRETE should be allowed to dry for three days before water logging. two coat application of K2 PRIMECRETE is required and approximate thickness of 1 mm.

**COVERAGE :** (1 liter K2 PRIMECRETE + 2 kg cement) will cover 18 to 20 sq.ft at 1 mm thickness in two coats. coverage varies depending on the surface and application thickness.

**PACKING :** K2 PRIMECRETE is available in 20 liter, 50 liter & 200 liter pack.

**SHELF LIFE AND STORAGE :** Shelf life is 12 months from the date of manufacturing. store the material in cool and dry place. keep away from direct sunlight and heat.



## K2 BRUSHGARD | TWO PACK POLYMER MODIFIED CEMENTITIOUS WATERPROOF COATING

**DESCRIPTION :** K2 BRUSHGARD is prepacked two components cementitious and acrylic polymer provides durable flexible waterproofing coating. it is applied to waterproof and protect concrete and similar structures.

### AREA OF APPLICATION :

- \* K2 BRUSHGARD can be applied to new and old concrete structures that are structurally sound and strong.
- \* Concrete roof slabs, floors, balcony, bathrooms and kitchen.
- \* Water tanks and swimming pools, reservoir, bridge decks, canals and dam walls.
- \* Suitable for steam room waterproofing.
- \* Sewage treatment plants.

### BENEFITS :

- \* Flexibility - provides a flexible & low permeable coating.
- \* Water permeability - excellent resistance to ingress of water.
- \* Slip resistant - provides slip resistant coating.
- \* Waterproof - waterproof for concrete structures.
- \* Adhesion - excellent adhesion to concrete, natural and artificial stone.
- \* Diffusion - excellent resistance to chloride ion diffusion and carbon dioxide.
- \* Low temperature resistant - resistance to freeze-thaw cycles and de-icing salts.
- \* Carbonation - prevents carbonation of cement concrete.

### TECHNICAL INFORMATION :

- \* **Consistency :** Brushable
- \* **Color :** Grey / white
- \* **Pot life @25°C :** 40 minutes
- \* **@35°C :** 20 minutes
- \* **Adhesion to concrete :** 1.5N/mm<sup>2</sup>
- \* **Application temperature :** 10°C to 40°C
- \* **Toxicity :** Nontoxic

### APPLICATION INSTRUCTION :

**Surface Preparation :** The surface must be strong and free from dirt, dust and loose particles. thoroughly wire brush the surface and clean the dust by air compressor or wash the surface with water. oil & grease must be removed using decreasing solvents or K2 MULTI CLEAN. repair the cracks up to 5 mm with K2 KRACKSEAL and above 5 mm cracks using K2 BOND SBR with mortar.

**Mixing :** K2 BRUSHGARD is a two component, shake well the liquid component and transfer entire quantity of liquid component into a suitable clean mixing vessel, gradually start addition of powder component under constant mixing with a stirrer using electric power tool (1kw) at slow speed at 250 – 300 rpm for 3- 5 minutes to a homogeneous & uniform free flowing slurry.

**Application :** Apply slurry coat of mixed material in two coats, first coat should be allowed to air dry for 5-6 hours. after application of the second coat, air dry for 2 to 6 hours. during this period water should not be used for curing. moist curing should be done for the next 24 hours.

**COVERAGE :** 1 kg material covers 6.5 to 7.5 sq.ft. in 2 coats @ 1 mm thickness.

**PACKING :** K2 BRUSHGARD is available in 3 kg (2 kg powder+1 liter liquid) and 15 kg pack (10 kg powder + 5 liter liquid)

**SHELF LIFE AND STORAGE :** K2 BRUSHGARD has a shelf life of 12 months in unopened packs, if kept in a dry store.





## K2 UNIPRIME | EFFLORESCENCE RESISTANT PRIMER FOR ALL CEMENT BASE SURFACE

**DESCRIPTION :** K2 UNIPRIME is a highly specialized white copolymer surface stabilizer and efflorescence resistant primer for all cement base surface. It is designed to improve the physical, mechanical and weather resistant properties of the surface in hardened stage. K2 UNIPRIME improves the surfaces and makes it sound for further coating.

**AREA OF APPLICATION :** K2 UNIPRIME is used as a primer coat for all types of exterior, interior, vertical and horizontal cement surface of the building.

### BENEFITS :

- \* Excellent waterproofing characteristics.
- \* Surface stabilizer and efflorescence resistance.
- \* Crack bridging ability.
- \* Allows the surface to breathe.
- \* Very good adhesion to concrete surface.
- \* Ease of application- brush applied.
- \* Protects and damp proofs the cement surface.
- \* Economical and cost effective.

### TECHNICAL INFORMATION :

- \* **Appearance :** Milky white viscous liquid
- \* **Shade :** White
- \* **Specific gravity :** 1.45 g /cc
- \* **Adhesion to concrete :** > 1 N/mm<sup>2</sup>
- \* **Compatibility :** Compatible to all cement mortar / concrete / cement sheets etc
- \* **Surface drying :** 4 – 6 hours
- \* **Hard dry :** 24 hours
- \* **Finish :** Matt

### APPLICATION INSTRUCTION :

**Surface preparation :** Prepare the surface thoroughly by cleaning, washing and removing dust, dirt, oil, grease and loose particles. Repair the cracks up to 5 mm with K2 KRACK SEAL and above 5 mm cracks with K2 BOND SBR and modified mortar. All old surfaces having existing efflorescence must be thoroughly washed with water and dried before applying the product. Any source of water in contact with the substrate causing dampness must be closed or eliminated to avoid raising dampness from inside.

**Application :** Ensure the substrate is clean and dry before applying the product. K2 UNIPRIME is water dilutable and can be suitably diluted with fresh and clean water to suit the application requirement. Porous substrate will require more dilution to ensure the deep penetration of primer. Apply the product with the help of stiff and short brush and allowed to air dry for 4-6 hours before subsequent coat. One or two coats can be applied keeping the interval of 4 to 6 hrs.

**Dilution :** K2 UNIPRIME can be diluted up to 20 to 40 % using clean and fresh water.

**COVERAGE :** K2 UNIPRIME has a coverage of approximately 12 to 14 sq.mt. / liter in one coat, depending on substrate.

**PACKING :** K2 UNIPRIME is available in 1 liter, 4 liter and 20 liter pack.

**SHELF LIFE AND STORAGE :** Shelf life is 12 months from the date of manufacturing. Store the material in a cool and dry place. Keep away from direct sunlight and heat.



## K2 WM PROOF | HIGH PERFORMANCE BITUMEN MODIFIED LIQUID WATERPROOFING MEMBRANCE

**DESCRIPTION :** K2 WM PROOF is a high performance ready to use, cold applied, high build liquid waterproofing membrane based on polymer modified bitumen emulsion. K2 WM PROOF forms a seamless, highly elastic and durable film that adheres well to most of the common substrates e.g. concrete, cement blocks, wood, existing roof felts. K2 WM PROOF is highly resistant to chlorides and sulphates commonly present in the soil.

**AREA OF APPLICATION :** Waterproofing of concrete and block founders, retaining walls, basements and wet areas such as kitchen, toilet floors and balconies.

### BENEFITS :

- \* Damp proof membrane in sandwich panel constructions.
- \* Facade damp proofing, protective coating for sub structure.
- \* Single component, ready to use.
- \* Creep resistant to temperature up to 120°C.
- \* Non-flammable and non-toxic.
- \* Applicable immediately after removal of the frame work.
- \* Resistant to chlorides and sulphates commonly present in the soil.
- \* Environment friendly.

### TYPICAL PRODUCTS CHARACTERISTICS :

- \* **Appearance :** Thyrotrophic black emulsion dries to a black flexible protective membrane
- \* **Specific gravity :** 1.04+/-0.01
- \* **Non-volatile content :** 65% Min
- \* **Rubber content :** 10% Minimum
- \* **PH :** 10.0 – 12.0
- \* **Drying time :** 1 – 3 hours
- \* **Full dry :** 3 – 4 days

The drying time depends on the of substrate, temperature, humidity and thickness of layer, etc

### PROPERTIES OF DRY FILM :

- \* **Softening point R & B (ASTM D36-84) :** > 120°C.
- \* **Water vapour permeability (ASTM E96 – 92) :** > 0.15g/m<sup>2</sup>/day.
- \* **Elongation at break (ASTM D4.12) :** > 900%.
- \* **Recovery at 350% elongation (ASTM D412) :** > 50%.
- \* **Resistance to water (ASTM D2939) :** No blistering or re-emulsification.
- \* **Protection of buildings against ground Water :** As per BS 102 code of practice.
- \* **Curing membrane :** ASTM C 309: 1998.

**Surface preparation :** All surfaces should be sound, clean and free of contaminants. Absorbent surfaces e.g. concrete should preferably be dampened with water. In kitchens, toilets and other wet areas all the opening should be properly sealed. On all weak points such as cracks or around the pipes use a woven fiberglass mesh as reinforcement between the two coats of K2 WM PROOF.

**Application :** K2 WM PROOF can be applied by brush, roller or squeegee. Hot, dry or very porous substrate should be dampened with clean water prior to application of K2 WM PROOF. When two or more coats are required, ensure that the preceding coat should be dried up fully. K2 WM PROOF also acts as a non-degradable curing membrane; hence it may be applied immediately after the removal of mould, to the concrete structure, which has no aesthetic value such as the sub structure of the building.

**COVERAGE :** Apply two coats @ (approx.) 1.0 kg/m<sup>2</sup>/coat

**PACKING :** K2 WM PROOF is available in 20 kg and 200 kg pack.

**SHELF LIFE AND STORAGE :** K2 WM PROOF has shelf life of 12 months. When stored in unopened normal conditions.



## K2 BITUCOAT | Bituminous anti-corrosive waterproof coating

**DESCRIPTION :** K2 BITUCOAT is a specially formulated bituminous anti-corrosive, protective and waterproof coating with semi glossy black finish. It is composed of oxidized bitumen, mineral binders and low volatile solvents. The product is virtually odorless. It conforms to IS 9862-1981 as well as IS 158-1981.

**AREA OF APPLICATION :** K2 BITUCOAT is used as a protective coating on iron, steel, masonry and wooden surfaces. Being nontoxic and waterproof it is suitable for coating inner surfaces of concrete & steel water tanks. K2 BITUCOAT can be applied on rear side of wooden door & window frames to make the frames water insensitive & protect it from water used during construction work. K2 BITUCOAT can also be applied on the wooden, steel, ply board form work to make them waterproof and last longer. K2 BITUCOAT can be used for external lining & treatment of below ground structures to provide protection against sub ground water and aggressive environment.

### BENEFITS :

- ★ Excellent waterproofing characteristics.
- ★ Very good adhesion to concrete and wooden surfaces.
- ★ Ease of application - brush applied.
- ★ Economical and cost effective water proofing coating.
- ★ Can be applied in exposed as well as in sandwich layer form for waterproofing application.

### TECHNICAL INFORMATION :

- ★ **Appearance :** Black color liquid
- ★ **Dry film appearance :** Semi glossy black specific
- ★ **Specific gravity :** 0.920 g/cc
- ★ **Dry time, touch dry :** 3 hours
- ★ **Dry time, hard dry :** 6 - 8 hours
- ★ **Dry film thickness :** 50 - 60 microns per coat
- ★ **Flash point :** More than 50°C coating
- ★ **Coating interval :** 8 hours
- ★ **Application recommendation :** 1 priming coat + topcoat
- ★ **Standard compliance :** IS : 9862/1981 and IS : 158/1981

### APPLICATION INSTRUCTION :

- ★ K2 BITUCOAT is to be stirred well before use to ensure thorough dispersion. Prepare the surface thoroughly by cleaning, washing and removing dust, dirt, oil, grease and loose particles. For the older surface having grease, oil, deposits and loose coating, use of K2 MULTI CLEAN is recommended for cleaning. Any visible cracks require repairing. Repair the cracks up to 5 mm cracks with K2 BOND SBR and modified mortar.
- ★ Loose dust should be brushed off and surface should be dry before application, provided the old surface is not in a flaky condition.
- ★ One primer coat and two top coats of K2 BITUCOAT are required. Maintain 6 - 8 hrs gaps between subsequent coats and allow first coat to harden before applying next coat.

**COVERAGE :** The approximate coverage is 10 sq.mt. when applied over metal and 8 sq.mt. when applied over brick masonry and concrete in 1 liter. Coverage varies depending on the surface and application thickness.

**PACKAGING :** K2 BITUCOAT is available in 500 ml, 1 liter, 4 liter & 20 liters pack.

**SHELF LIFE AND STORAGE :** Shelf life is 24 months from the date of manufacturing. Store the material in cool and dry place. Keep away from direct sunlight and heat.



## K2 EXPEL SWR | COLORLESS SILICONE WATER REPELLENT

**DESCRIPTION :** K2 EXPEL SWR water repellent is available as a colorless, ready to use, silicone resin solution which can be sprayed or brush applied onto the surface. Provides water repellent surface with improved self-cleaning properties on exterior building - brick work, concrete, cement rendering, natural or cast stone. Helps in reducing efflorescence due to soluble salts in brickwork.

### BENEFITS :

- ★ Easy and ready to apply with brush or spray direct from container.
- ★ Very effective on old or new surface.
- ★ Unaffected by salt-laden atmosphere, reduces visible staining. Very ideal and reliable in coastal areas.
- ★ Risk of efflorescence is reduced in brickwork masonry.
- ★ Reduces cracking and crazing in in-situ or precast concrete.
- ★ Colorless and retains natural color and texture of surface material and allows breathing.

### STANDARDS :

- ★ K2 EXPEL SWR water repellent complies with BS6744-92 class A and B as silicone-based water repellent. For application on brickwork, concrete, cement rendering, natural or cast stone of predominantly siliceous nature, it complies with BS6744-92 class A.
- ★ For application on sand stone, lime stone, calcium silicate, brickwork, natural or cast stone of predominantly calcareous nature, complies with BS6744-92 class B.

### PROPERTIES :

- ★ **Water resistance :** K2 EXPEL SWR repels rain water and inhibits ingress of surface water provided there is no hydrostatic pressure. K2 EXPEL SWR has low permeability to salt solution, dust and soot particles. Leaching of soluble salts from brick work, which causes efflorescence, absorption of deicing salts by concrete which causes degradation and absorption of atmospheric dirt by brickwork, concrete and stone are all minimized.
- ★ **Breath ability :** K2 EXPEL SWR water repellent allows building surfaces to breathe naturally by releasing water vapour.

### APPLICATION INSTRUCTIONS :

- ★ **Preparation :** Surfaces should be dry, although slight dampness is not detrimental. Surface to be treated should be free from oil, grease, loose particles, decayed matter and moss or algae growth. Joints in brickwork should be sound. If not should be raked and redone with cements/sand mortar using K2 LIGNOPROOF WLC waterproofing compound.
- ★ **Coating :** K2 EXPEL SWR water repellent should be applied evenly by spraying or brushing ensuring an even coat the entire surface. Porous surface should be well saturated with a two coat application.
- ★ **Decorating :** Decorative coatings can be applied to surface previously treated with K2 EXPEL SWR water repellent. Water based cement or emulsion paints should not be applied on coated areas but can be applied before coating the surface with K2 EXPEL SWR.
- ★ **Cleaning :** Brushes and equipment should be cleaned immediately after use.

**COVERAGE :** On brick work and smooth cement renderings, 4.5 - 9 sq.mt. per liter can be covered depending upon porosity of the substrate.

**PACKING :** K2 EXPEL SWR water repellent is available in 1 liter, 5 liter, 20 liter & 200 liter pack. On brick work and smooth cement renderings, 4.5 - 9 sq.mt. per liter can be covered depending upon porosity of the substrate.

**SHELF LIFE AND STORAGE :** K2 EXPEL SWR water repellent has a shelf life of 12 months if kept in dry store in its original packing. High temperature and humidity storage may reduce this period.



# EXTERIOR COATING

## K2 SMARTCOAT HEAVY DUTY FIBER REINFORCED ACRYLIC POLYMER BASED ELASTOMERIC WATERPROOF COATING FOR TERRACE

**DESCRIPTION :** K2 SMARTCOAT is a ready to use, heavy duty, high build flexible terrace waterproof coating which contains specially developed highly elastic & resilient acrylic polymers, properly selected & graded fillers, light fast & weather durable pigments, micro-fibers, additives & best quality fungicidal to ensure waterproofing. it is used as a liquid applied waterproofing membrane for all types of building terrace. it is a three-layer system provides extremely tough decorative waterproof coating. for better performance on large roofs, by providing a fiber mesh can be embedded or sandwiched between the coats.

**AREA OF APPLICATION :** K2 SMARTCOAT can be used for waterproofing coating for concrete and plaster surface in all types of building slab, roofs, terraces, sloping and horizontal surfaces.

### BENEFITS :

- \* Single pack, ready to use.
- \* Easily application by brush & roller.
- \* Excellent flexibility-crack bridging ability up to 2mm width.
- \* Excellent bonding with cement base substrates.
- \* UV, weather & abrasion resistant.
- \* Resistance to fungus and algae.
- \* Allows the surface to breathe.
- \* Highly elastic & resilient coating so helps to withstand the structural movements.
- \* Protective and decorative waterproof coating.
- \* Non toxic & harmless to hands.

### TECHNICAL INFORMATION :

* Properties :	Results
* Appearance :	White viscous liquid
* Non volatile :	65-70%
* Water permeability (Depth of penetration at 5 bar pressure) :	6, Excellent
* UV resistance :	Excellent, no thermal degradation
* Adhesion strength, N/mm <sup>2</sup> :	0.9
* Algae & fungus resistant :	No algae & fungus growth
* Crack bridging :	No cracks up to 2 mm width

### SURFACE PREPARATION :

- \* Surface should be sound and clean, free from dust, grease, oil, loose material, paint etc.
- \* Clean the surface thoroughly by wire brush or shot blasting if require and remove the loose particles.
- \* Repair the surface crack up to 5 mm by K2 KRACKSEAL PASTE.
- \* Cracks more than 5 mm should be repaired by K2 BOND SBR modified mortar.
- \* All new cement sand renderings/ concrete surface should be allowed to age 6 to 8 weeks before surface coating.

### PRIMAR COAT :

- \* Surface should be in SSD condition before priming.
- \* Dilute 2 parts of K2 UNIPRIME with 1 part of water.
- \* Allow primer to dry for at least 4-5 hours.
- \* Apply with brush or roller.



**APPLICATION :**

- \* Use K2 SMARTCOAT directly from the container, stir the container well before use.
- \* Apply the first coat of K2 SMARTCOAT without any dilution by brush or roller and coat.
- \* Should be applied in one direction only, allow the coating to dry for 4-5 hours.
- \* The second coat should be applied in the direction perpendicular to the first coat. allow it to dry for 4-5 hours.
- \* Apply the third coat in the direction of the first coat and allow it to air dry completely.
- \* In larger roof, an open woven glass fiber mesh of 2.5 mm X 2.5 mm must be sandwiches between the first and second coat.
- \* Minimum three coats are recommended.
- \* Allow the coating for dry and cure for minimum 7 days.

**PRECAUTION :**

- \* K2 SMARTCOAT does not apply on wet and damp surface.
- \* Do not apply when ambient temperature is below 10°C or above 45°C.
- \* Do not apply in direct sunlight or during rain.
- \* Do not dilute with water.

**CLEANING :** Clean tools & equipments and hand with K2 SOFT CLEAN and warm water, immediately after use.

**COVERAGE :** Coverage will be 2m<sup>2</sup> per liter per coat. for a three coat application achieving DFT of 650 to 800 microns. the coverage may vary depending on the substrate condition.

**PACKING :** K2 SMARTCOAT is available in 4 liter and 20 liter pack.

**SHELF LIFE & STORAGE :** K2 SMARTCOAT has a shelf life of 12 months in unopened packs, it keeps in a cool and dry store, away from sun heat.

# K2 HEAT GUARD

HEAT INSULATING ELASTOMERIC  
EXTERIOR COATING

**DESCRIPTION :** K2 HEAT GUARD is a single component heat reducing elastomeric acrylic coating composed of acrylic resin , ceramic hollow micro sphere, pigments, reinforcing fillers and additives. on application it forms a elastomeric film in form of monolithic uniform membrane, that provide protection from ultraviolet rays and normal weathering. it reflects heat as well serves as insulation medium to resist heat transfer. it saves in consumption of electric energy for air conditioning and keeps interiors cool and provide additionally waterproof properties.

**AREA OF APPLICATION :**

- \* Building roofs and terraces and exterior walls.
- \* Industrial / factory roofing - concrete, asbestos and metal.
- \* Cold storage, hospital building, etc.
- \* Storage tanks-water, chemical, etc.

**BENEFITS :**

- \* Single component - easy to apply - by brush, roller or spray.
- \* Heat insulation - non conductive properties keeps the building warm in winter and cool in summer.
- \* UV resistance - resistance to UV emission reduces heat conductivity.
- \* Non toxic - Safe for the environment and eco friendly.
- \* Microbial resistant - prevent growth of algae, fungus and moss.
- \* High reflective

**APPLICATION METHOD :**

- \* Surface should be sound and clean , free from dust ,grease , oil, loose material , paint etc.
- \* Clean the surface thoroughly by wire brush or shot blasting if require and remove the loose particles.
- \* Repair the surface cracks up to 5 mm by K2 KRACK SEAL.
- \* Cracks more than 5 mm should be repaired by K2 BOND SBR modified mortar.

**TECHNICAL INFORMATION :**

- \* **Appearance :** White colored uniform paste
- \* **Color :** White
- \* **Solid content :** 60 %
- \* **Light reflection :** 92% at 700nm
- \* **Elongation at break (ASTM D412) :** 100%
- \* **Tensile strength at break (ASTM D412) :** 10-15 kg / cm<sup>2</sup>
- \* **Hardness (ASTM D 2240) :** 45-55 shore A
- \* **Dry film thickness :** 70-75 microns per coat

**PRIMAL COAT :**

- \* Surface should be in SSD condition before priming, dilute 2 parts of K2 UNIPRIME with 1 part of water.
- \* Apply with brush or roller, allow primer to dry for at least 4 to 5 hours.

**APPLICATION :**

- \* Apply the first coat of K2 HEAT GUARD by brush or roller.
- \* Allow the coating to dry for 3-4 hours before applying second coat.
- \* Minimum two coats are recommended , if require additional coat can be applied.
- \* Allow the coating for dry and cure for minimum 3 days.

**PRECAUTIONS :** K2 HEAT GUARD do not apply on wet and damp surface. apply as final coat , no over coating on K2 HEAT GUARD. do not dilute more than 20% with water.

**COVERAGE :** Coverage on concrete surface 40 - 50 sq. ft./ liter / per coat, steel surface 50 - 60 sq. ft./ liter / per coat.



**PACKING :** K2 HEAT GUARD is available in 1 liter , 4 liter and 20 liter pack.

**SHELF LIFE & STORAGE :** Shelf life is 12 months from the date of manufacturing. store the material in cool and dry place

## K2 ELASTOMERIC | DECORATIVE ELASTOMERIC EXTERIOR WATERPROOF COATING

**DESCRIPTION :** K2 ELASTOMERIC is composed of high build flexible acrylic emulsion polymer, ready to use, waterproof coating with anti- carbonation properties which contains special graded fine filler, weather durable polymer and additives biocides to ensure waterproofing.

### AREA OF APPLICATION :

- All type of exterior concrete surface.
- All type of vertical/horizontal exterior plaster surface of the building

### BENEFITS :

- Single pack, ready to use.
- Excellent flexibility-crack bridging ability.
- Excellent bonding with cement base substrates.
- Resistance to UV, abrasion, fungus and algae.
- Allows the surface to breathe.
- Protective and decorative waterproof coating.
- Anti-carbonation properties.

### TECHNICAL INFORMATION :

Properties :	Results
• Nature :	Single component
• PH at 25°C :	9±1
• Drying Time :	½ to 4 hours. (depends upon temperature and humidity)
• Microbial resistance :	No Growth
• Penetration of chloride ion :	Very low
• Coating thickness ( 2 coats ) :	100 to 130 microns
• Elongation % :	400 %
• Density :	1.3±0.02 g/cc

### SURFACE PREPARATION :

- Surface should be sound and clean, free from dust, grease, oil, loose material, paint etc.
- Clean the surface thoroughly by wire brush or shot blasting if require and remove the loose particles.
- Repair the surface cracks up to 5 mm by K2 KRACKSEAL.
- Cracks more than 5 mm should be repaired by K2 BOND SBR modified mortar.
- All new cement sand renderings/concrete surfaces should be allowed to age 6 to 8 weeks before surface coating.

### PRIMER COAT :

- Surface should be in SSD condition before priming, dilute 2 parts of K2 UNIPRIME with 1 part of water.
- Apply with brush or roller, allow primer to dry for at least 4 to 5 hours.

### APPLICATION :

- Use K2 ELASTOMERIC directly from the container. stir contents well before use.
- Apply the first coat of K2 ELASTOMERIC by brush or roller.
- Allow the coating to dry for 4-5 hours before applying second coat.
- Minimum two coats are recommended, if require additional coat can be applied.
- Allow the coating for dry and cure for minimum 7 days.

### PRECAUTIONS :

- K2 ELASTOMERIC do not apply on wet and damp surface.
- Do not dilute more than 20% with water

**COVERAGE :** 1 kg material covers 3 to 3.5 m<sup>2</sup> for 2 coats. (coverage may vary depending upon the texture and porosity of the surface)

**PACKING :** K2 ELASTOMERIC is available in 1 liter, 4 liter and 20 liter pack.

**SHELF LIFE AND STORAGE :** Shelf life is 12 months from the date of manufacturing. store the material in cool and dry place. keep away from direct sunlight and heat.



## K2 SEAL COAT | TRANSPARENT COATING FOR TERRACE WATERPROOFING

**DESCRIPTION :** K2 SEAL COAT is a single component, ready to use Ultraviolet resistant transparent polymer coating for terrace water proofing.

**AREA OF APPLICATION :** Building roofs, terraces, exterior walls, chhajjas and parapet.

### BENEFITS :

- Single component- ready to use.
- Do it yourself-can be applied by brush, roller or spray.
- Transparent coat and hence maintains the beauty of china chips.
- Excellent adhesion to the china chips.
- Provides good abrasion resistance.
- Provides excellent waterproofing properties.
- Excellent resistance against UV, Infrared rays, algal and fungal growth.
- Excellent penetration in the substrate due to very low particle size.
- Eco friendly due to LOW VOC.

### TECHNICAL INFORMATION :

Properties :	Specification
• Appearance :	Milky white liquid
• Total solid (%) :	35 ± 1 %
• Ph at 25 °C :	7-8
• Application temperature :	25°C to 40°C
• Pull off adhesion ASTM D 723 (N/mm <sup>2</sup> ) :	Above 3
• DFT :	120 microns (3 coats)
• Abrasion resistance :	Good
• Elongation ASTM D 2370 (%) :	200

### SURFACE PREPARATION :

- Prepare the surface thoroughly by cleaning, washing and removing dust, dirt, oil, grease and loose particles.
- Repair the cracks up to 5 mm with K2 KRACK SEAL and above 5 mm cracks with K2 BOND SBR.
- Surface washed with water shall be allowed to dry completely before application of K2 SEAL COAT.

### APPLICATION :

- Apply the one coat of K2 SEAL COAT with brush, roller or spray. if applied by brush or roller the coat should be applied in one direction only. allow it to dry completely for 2-3 hours.
- Apply the second coat of K2 SEAL COAT on the dried first coat. if applied by brush or roller, the second coat should be applied in the direction perpendicular to the first coat. allow it to dry for 2-3 hours. apply the third coat in the direction of the first coat and allow it to air dry completely for 3 days for complete cross-linking of the coating.

### PRECAUTIONS :

- Do not apply if there is a direct contact with water. the surface coated with K2 SEAL COAT should be allowed to dry completely for at least 3 days without water contact. foot traffic movement can commence after 3 days from the date of completion of coating.
- The product is specifically designed for foot traffic and not for vehicle, point load or equipment/machinery movement, which may rupture the coating.
- All the corners, joints, protrusions and outlets should be coated with two extra coats of K2 SEAL COAT.

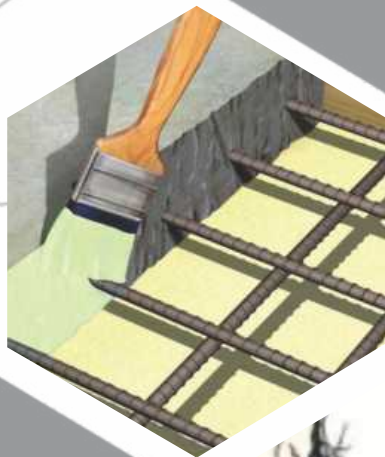
**COVERAGE :** 35-40 sq ft /liter for 3 coats (may vary depending on the surface).

**PACKING :** K2 SEAL COAT is available in 1 liter, 5 liter and 20 liter pack.

**SHELF LIFE AND STORAGE :** Shelf life is 24 months from the date of manufacturing. the material should be stored between 5 °C to 40 °C and avoid exposure to sunlight.



# REPAIRING PRODUCT



## K2 RESIBOND ER | Brush applied epoxy resin concrete bonding agent

**DESCRIPTION :** Bonds new cementitious materials to existing cementitious surfaces. for use on horizontal and vertical surfaces where mortar or concrete can be supported by form work. appropriate for extensions and repairs to structural concrete in buildings, loading bays, bridges, roads, jetties, airport tarmacs, pot holes, bonded or granolithic floor toppings etc.

**BENEFITS :**

- \* Enables overlaying of new concrete up to 6 hours. after applying K2 RESIBOND ER, without delamination.
- \* Ensures high bond strength that is more than the tensile strength of good quality concrete.
- \* Provides an excellent barrier coat and limits the migration of chloride ions from host concrete.
- \* Overlay time designed up to 10 hours at temperatures from 10°C to 30°C.

**PROPERTIES :**

	At 20°C	At 30°C
* Pot life :	5-6 hours	2-3 hours
* Full cure :	7 days	5 days
* Overlay time:	10 hours	6 hours
* Compressive strength :	BS 6319 Pt 2 @ 7 days 50N/mm <sup>2</sup>	
* Flexural strength :	BS 6319 Pt 3 @ 7 days 35N/mm <sup>2</sup>	
* Tensile strength :	BS 6319 Pt 7 @ 7 days 20N/mm <sup>2</sup>	
* Shear strength :	BS 6319 Pt 4 @ 7 days 10N/mm <sup>2</sup>	

**Adhesive strength to concrete:** In general the bond strength will always exceed the tensile strength of M30 grade concrete, K2 RESIBOND ER is based on solvent free epoxy resins with pigments and fine fillers. available as a two part material in premeasured quantities for ready onsite mixing and use. pigmented components - white base and green hardener - provide visual evidence that adequate mixing is achieved.

**APPLICATION INSTRUCTIONS :**

**Preparation :** All surfaces to be treated must be solid firm, dust free and clean. all laitence should be removed by etching and wire - brushing. in some cases, existing concrete should be chipped to a sound substrate. surfaces contaminated with oil or grease, should be removed by using a strong industrial detergent or organic degreaser. surface should be washed thoroughly with water and dried before the application of K2 RESIBOND ER.

**Mixing :** The entire contents of the hardener can should be poured into the resin container and the two materials thoroughly mixed until a uniform color is obtained. to facilitate application at temperatures below 10°C the separate components should be warmed in hot water to a maximum of 25°C before mixing.

**Coating :** Mixed K2 RESIBOND ER should be brush applied to the prepared surface. the new concrete should be placed within 6 hours at 30°C to the K2 RESIBOND ER coated substrate, when it is in a tacky state.

**COVERAGE :** approximately 2.6m<sup>2</sup> /kg and dependant on the texture and porosity of the surface being covered.

**PACKING :** K2 RESIBOND ER is available in 1.5 kg. pack.

**STORAGE & SHELF LIFE :** 6 months is stored under normal conditions below 35°C, in unopened condition.



## K2 KRACK SEAL

READY TO USE NON SHRINK POWDER  
CRACK FILLER FOR PLASTER CRACKS

**DESCRIPTION :** K2 KRACK SEAL is a ready to use cement based polymer modified non – shrink powder material for filling non – moving cracks in plasters. it is composed of cement, properly selected aggregates, polymer & additive which require on site addition of water only. it is ideal to fill up to 6mm x 6mm size static cracks. it has excellent adhesion with substrate both for vertical and horizontal application.

### AREA OF APPLICATION :

- \* For filling static cracks of up to 6 mm sizes in plasters and masonry wall.
- \* Suitable for both vertical and horizontal applications in building, toilets, bathrooms, balconies etc.
- \* As a fair coat on plastered or un plastered surfaces to fill up the gap or undulations.

### BENEFITS :

- \* Non - shrink.
- \* Easy to use – only water to be added.
- \* Adhesion – strong adhesion to common building substrates.
- \* For both internal and external surfaces.
- \* Applied surface is fair finish and paintable.

### TECHNICAL INFORMATION :

- \* Appearance : free flow white
- \* Color : White
- \* Mixing ratio by weight : 3 Part powder : 1 part water
- \* Bulk density : 1.15 g/cc
- \* Application life at 25°C : 25 minutes
- \* Setting time at 25°C : 4-5 hours

### APPLICATION INSTRUCTIONS :

**Surface preparation:** Surface should be sound and clean, make sure surface is free of loose debris, contamination of oil , grease or bitumen should be completely cleaned, remove old caulk from joints.

**Mixing :** Mixing ratio is 3 part powder : 1 part water by volume can be mixed easily by hand. better to soak with measured quantity of water for 5 minutes and then again mix. for larger volume mechanical mixing is advisable.

**Application :** Apply the mixed paste into the crack by suitable spatula or putty knife blade. fill the material and tool it by putty knife blade pressing against crack so that air voids get filled. workability of mixed system is approx 25 minutes.

**Limitations :** K2 KRACK SEAL to be used to fill cracks of static nature and up to 6mm wide only. not for dynamic cracks and expansion or construction joints.

**COVERAGE :** 1 kg powder covers approx 30 to 35 running meter length of crack for an average groove size 6mm x 6mm.

**PACKING :** K2 KRACK SEAL is available in 500 gm and 1 kg pouch.

**SHELF LIFE AND STORAGE :** Shelf life is 12 months from the date of manufacturing. store the material in cool and dry place.



## K2 KRACKSEAL PASTE

Ready to use acrylic polymer based crack filling  
paste for internal & external surface cracks in plaster

**DESCRIPTION :** K2 KRACKSEAL PASTE is a single pack, easy to use, high quality weather durable acrylic polymer based crack filling paste. it is flexible putty for filling the cracks in internal & external plastered surfaces because it has excellent bonding, water resistance, aesthetic appearance & durability.

**AREA OF APPLICATION :** K2 KRACKSEAL PASTE can be used for internal & external plastered brick masonry wall cracks of up to 5mm width.

### BENEFITS :

- \* Ready to use and easy to apply by putty knife similar to conventional putties.
- \* Flexible, therefore does not crack & accommodates minor movements in cracks.
- \* Water based with very low voc hence eco-friendly, non toxic & harmless to hands.
- \* Can be applied on damp surfaces but not on cracks with running water.
- \* Over coatable by any type of polymer based paints, after 24 hours.
- \* Excellent adhesion with cementitious surface and allow surface to breath.
- \* Excellent thixotropic ness.
- \* Excellent resistance to chemical, UV & atmospheric conditions.

### TECHNICAL INFORMATION :

- \* Appearance : White smooth & thick paste
- \* Consistency : Viscous paste
- \* Non volatile content : 75 - 80 %
- \* Drying time : Minimum 6 hours
- \* Water resistance : Excellent

### APPLICATION INSTRUCTION :

#### Surface Preparation :

- \* Surface must be free from dust, oil, grease, and loose particles etc. moisten the surface before applying K2 KRACKSEAL PASTE.
- \* Fine hair line cracks must be widened up to 1 mm minimum by using scrapper and then filled.
- \* For filling K2 KRACKSEAL PASTE on the internal surface, existing pop or painter's putty must be removed till plaster surface is exposed.
- \* For porous surfaces, apply primer coat prepared with K2 KRACKSEAL PASTE and water in 1:1 proportion over the crack. fill K2 KRACKSEAL PASTE when the surface is tacky and not dried completely.

### APPLICATION :

- \* Press K2 KRACKSEAL PASTE firmly into the crack with a spatula or putty knives and level with the surface.
- \* Care must be taken to avoid formation of cavities or bubbles during application.
- \* Allow it set for 24 hours and then apply another coat of K2 KRACKSEAL PASTE.
- \* Further pop or painter's putty application can be taken up once it is fully dry.
- \* For best results allow K2 KRACKSEAL PASTE to cure for 7 days.

### PRECAUTIONS :

- \* Should not be used for cracks more than 5 mm thick.
- \* Do not apply on wet surface.
- \* Not for application in cracks in structural members, expansion joints & separation gaps.
- \* Not for cracks in pop or painter's putty.
- \* For application below 10°C, drying time will be delayed.
- \* Container to be tightly closed after application.

**COVERAGE :** Coverage will be 25-30 running meter/kg, for v groove of 5mm width and 5mm depth. the coverage may vary depending on the substrate condition.



**PACKING:** K2 KRACKSEAL PASTE is available in 500 g and 1 kg pack.

**SHELF LIFE AND STORAGE:** K2 KRACKSEAL PASTE has a shelf life of 12 months in unopened packs, if kept in a cool and dry store, away from sun heat.

## K2 MICRO CONCRETE

General purpose, non-shrink high strength cementitious micro concrete

**DESCRIPTION :** K2 MICRO CONCRETE is a ready to use product in grey powder form, which requires only the on-site addition of water to produce a high strength, non-shrink micro concrete of predictable performance. The material is based on cement, graded aggregates, fillers and additives which impart controlled expansion characteristics in the plastic stage while minimizing water demand. The low water requirement ensures high early strength and long term durability. For larger repairs, mixed K2 MICRO CONCRETE can be modified by the addition of 10mm clean, graded, saturated, surface dry aggregates at site.

**AREA OF APPLICATION :** K2 MICRO CONCRETE is designed for repair of spalled or damaged concrete, precast floors and roads. Also as a render where durability or increased weather resistance is required.

### BENEFITS :

- \* Shrinkage compensated.
- \* Formulated for deep section grouting.
- \* Prepacked factory controlled to overcome site batched variations.
- \* Excellent workability retention even at high ambient temperature.
- \* High bond strength to steel & concrete.
- \* Early strength development even at fluid consistency.
- \* Good fatigue and impact resistance.

### TECHNICAL INFORMATION :

- \* Yield : Approximately 13.0 liter per 25kg bag
- \* The following were obtained at water : Powder ratio of 0.180 @ 30°C
- \* Compressive strength in (kg/cm<sup>2</sup>) as per BS 4551-80

AGE IN DAYS	COMPRESSIVE STRENGTH in kg/cm <sup>2</sup>
1	150
3	350
7	425
28	550

### APPLICATION INSTRUCTION :

#### Surface preparation :

The surface onto which the grout is to be applied should be scabbled to remove laitance and expose aggregate. Do not use bush hammers or similar preparation equipment that can crush the aggregate but leave it in place. The surface must be free of oil, dust, dirt, paint, curing compounds, etc.

Soak area to be grouted with water for 24 hours prior to grouting to minimize localized absorption and to assist in the free flow of the grout. Surfaces should be damp but free of standing water. Particular attention should be paid to bolt holes to ensure that these are water-free.

Use oil free compressed air to blow out bolt holes and pockets as necessary. Base plates, bolts, etc. must be clean and free of oil, grease, paint, residual, curing compound or other contaminants that could impair adhesion. Set and align equipment. If shims are to be removed after the grout has set, then lightly grease.

Mixing & placing mix 25 kg of K2 MICRO CONCRETE with 4.5 liter of clean water. Care should be taken to ensure that K2 MICRO CONCRETE is thoroughly mixed in suitably sized vessel with a torque (400-500 RPM) rotary drill fitted with a mixing paddle. The addition of graded aggregate where specified should be added after the water and K2 MICRO CONCRETE should be properly mixed.

**CURING :** Curing should start within 24 hours and minimum curing time should be same as that for concrete (7 days) as a cementitious material.

**PACKING :** K2 MICRO CONCRETE is available in 25 kg bag.

**SHELF LIFE & STORAGE :** K2 MICRO CONCRETE has a shelf life of 12 months from the date of manufacture when kept at a temperature between 5°C to 45°C and store in the original, unopened bags.



## K2 BARCOAT EP

EPOXY ANTI CORROSIVE COATING FOR STRUCTURAL STEEL & REINFORCEMENT

**DESCRIPTION :** K2 BARCOAT EP is a two pack high performance polyamide cured epoxy coating. It is an anti corrosive coating designed to provide weather resistance to structural steel and rebar. It has good adhesion to steel and galvanized steel. It has excellent properties for toughness, abrasion resistance, chemical resistance and corrosion resistance.

**AREA OF APPLICATION :** K2 BARCOAT EP is an ideal coating for structural steel reinforcement, embedded structural steel in concrete, ferrous and metal substrates, pipe foundation, marine installation and structures exposed to saline and industrial environments. It is suitable for touching up of weld seams and damage to epoxy coatings during construction.

### BENEFITS :

- \* Excellent corrosion resistance, chemical resistance & weather resistance.
- \* Protects the rebar and metal from sulphates and chlorides.
- \* Very good adhesion to metal surface.
- \* Excellent impact & abrasion resistance.
- \* Good resistance to water, moisture, saline conditions and splash of mild chemicals.

### TECHNICAL SPECIFICATION :

- \* Color & finish : light green & semi glossy
- \* Surface drying time (@30°C) : 2 - 4 hours
- \* Drying time – hard dry (@30°C) : 16 - 24 hours
- \* Over coating time : 16 hours to 7 days
- \* Full cure : 7 days
- \* Dry film thickness : 45 to 50 Microns (single coat)
- \* Pot life : 4 – 6 hours depending on an ambient temperature
- \* Mixing ratio : 4 : 1 by volume
- \* Volume solid % : 48 % approx

### APPLICATION INSTRUCTION :

**Surface preparation :** Prepare the surface thoroughly by cleaning, washing and removing dust, dirt, oil, grease and loose particles by means of wire brushing sandblasting etc. The structural steel reinforcement should be clean by wire brush or acid cleaning to ensure clean and sound substrate.

**Mixing :** K2 BARCOAT EP is supplied in preweighed containers ready for mixing. Pour the contents of part-B into the container of part-A and mix thoroughly, preferably by mechanical means until an even uniform green color material without streaks is produced. A low speed drill with paddle attachment is recommended for mixing operations.

**Application :** K2 BARCOAT EP should be applied by brush or spray. Allow the coating to dry for minimum 16 to 24 hours before applying second coat.

**COVERAGE :** 9 to 12 Sq.Mt/ liter/coat for 45 to 50 microns dry film thickness (coverage may vary depending upon the surface)

**PACKING :** K2 BARCOAT EP is available in 4 liter & 20 liter pack.

**SHELF LIFE AND STORAGE :** Shelf life is 24 months from the date of manufacturing. Store the material in cool and dry place. Keep away from direct sunlight and heat.





# ENGINEERING GROUTS

## K2 RESIGROUT | POLYESTER RESIN GROUT

**DESCRIPTION :** K2 RESIGROUT polyester resin grout is a pre measured, two parts, filled polyester resin grouts. after hardening the grout produces anchorages of consistent reproducible values. K2 RESIGROUT is used where the difference between the hole diameter and bar diameter is  $< 25\text{mm}$ . it is used in overhead or horizontal holes where bar / hole relationship conforms to the product properties.

**AREA OF APPLICATION:** Used for high strength corrosion resistant anchoring of bolts and bars from 12 – 25mm diameter into concrete, rock, masonry or brickwork where high speed of installation and early application of load is required. permanent installation of reinforcement starter bars, foundation bolts, base plates, balustrade, barriers and safety fences, railway tracks, tieback anchors, reinforcement dowelling abutments, ground anchors for towers, cranes, dock sills.

### BENEFITS :

- \* Gains rapid strength.
- \* Resistant to vibrations and corrosion.
- \* Non expansive.
- \* Ideal for under water placement.

**STANDARD:** K2 RESIGROUT conforms to BS 4551, BS5080, BS2782 standards.

### TECHNICAL INFORMATION :

* Physical appearance :	Brown color viscous paste.
* Gel time @30 °C, minutes :	20.
* Compressive strength - 7 days :	60 N/mm <sup>2</sup>
* Flexural strength - 7 days :	12 N/mm <sup>2</sup>
* Shear strength - 7 days :	24 N/mm <sup>2</sup>
* Tensile strength - 7 days :	9 N/mm <sup>2</sup>

### APPLICATION INSTRUCTIONS :

#### Hole preparation & formation :

- \* For best performance of K2 RESIGROUT rough sided, dust free holes are required. uses of rotary percussive drills with air or water flushing is recommended.
- \* Diamond drilled holes should be under-reamed unless necessary safety factors are incorporated. cast holes should preferably be inverse dovetail configuration.
- \* If parallel sides holes are cast they should be rough to provide adequate keying.

**Bar preparation :** All bars should preferably be free from grease and flaky rust.

**Mixing :** The complete pack of resin and catalysed filter should be mixed at once in one operation mechanically. when a smooth, even consistency is achieved the grout is ready for use and should be placed well within the gel time the grout. the pre measured packs should be used in full and do not attempt to mix partial pack components.

**Installation :** The calculated volume of grout should be poured steadily into the prepared holes. the anchor bar is then pressed into the hole to the required depth. slight agitation of the bar will assist in achieving a complete bond. the bar should then be left undisturbed in the required position until the resin is set.

**Precautions :** K2 RESIGROUT should not be used where structural load bearing performance has to be maintained in anchors subjected to fire conditions.

**PACKING :** K2 RESIGROUT is available in 500 gm pack.

**SHELF LIFE AND STORAGE :** The product should be stored away from high temperature. 6 months shelf life when stored below 25°c in original unopened containers.



# K2 GROUT NSFF

FREE FLOW ULTRA HIGH STRENGTH  
CEMENTITIOUS PRECISION GROUT

**DESCRIPTION :** K2 GROUT NSFF is a single pack, ready to use, ultra high strength, free flow, & non-shrink grout. K2 GROUT NSFF is a blend of specially processed cement and special fillers free from corrosive substances and additives. K2 GROUT NSFF is supplied as ready to use grout requiring addition of precise quantity of water at site (4 to 4.5 liter / 25kg Grout). K2 GROUT NSFF is suitable for gap widths between 10mm – 50mm of thickness. In excess of 50 mm gap, cleaned washed 10mm aggregates can be incorporated at the rate of 50% - 100% of the quantity of grout used. controlled expansion occurs in the unset material to ensure that the grout when cured will continue to occupy its original volume within the confines of the voids in which it was placed. for thicker section it is necessary to fill out grout with well graded slit free aggregate to minimize heat buildup.

**AREA OF APPLICATION :** K2 GROUT NSFF is used in bolt pockets and base plate grouting of all equipments, crane, turbines, compressors, boilers, pumps etc and all types of machinery with dynamic load.

#### BENEFITS :

- \* Pre-packed factory controlled consistent material needs only addition of water.
- \* Shrinkage offset by expansion and ensures retained original volume.
- \* Free flow ensures high level of contact with load bearing area.
- \* Easy placement and filling of under bases of machinery.
- \* No metallic ion contact to cause staining.
- \* Develop high early strength without the use of chlorides.
- \* High ultimate strength ensures the durability of the hardened grout.
- \* Hold up to industrial machinery vibration & impact.
- \* Excellent adhesion to concrete & steel.

#### TECHNICAL PROPERTIES :

- \* The water needs to be precisely measured and 25 kg of K2 GROUT NSFF will require 4.125 liter for pourable consistency (W/P – 0.165) and 4.5 liter for flow able consistency (W/P – 0.180).
- \* Flow: 17 to 22cm on flow table. flow tested (as per BS: 4551 part – 12, 1980)-315% at flow consistency.
- \* Yield per 25 kg :           Pourable -           12.5 liter.  
  Flow able -       13.3 liter.
- \* Physical appearance :   Grey colored powder.

Compressive strength (N/mm <sup>2</sup> ) (BS 1881 - part 1 16 : 1983)		
Age(days)	Flow able(W/P 0.18)	Pourable Consistency (W/P 0.165)
1	20	25
3	45	54
7	55	68
28	65	78

Compressive strength with addition of aggregates			
Age(days)	Compressive strength(N/mm <sup>2</sup> ) (W/P 0.18)% of aggregates(IS 516 - 1959)		
	50%	75%	100%
1	28	30	32
3	50	52	55
7	60	63	68
28	70	75	78

Flexural strength (BS 4551, 1998)	
Age(days)	Flexural strength(N/mm <sup>2</sup> ) (W/P 0.18)
1	2.0
3	7.0
7	9.0
28	10.0

#### APPLICATION INSTRUCTIONS :

##### Surface preparation :

All contaminated surfaces must be cleaned thoroughly by chemical or mechanical methods all bolt pockets and under bases must be free from dust, laitance and sound substrate. if needed, substrate with water should be allowed for full absorption for at least 24 hours. just before the grouting is to commence, all water must be removed completely leaving the surface only damp.

##### Mixing:

- \* Mechanical mixing should be done using a grout mixer or free fall concrete mixer. no hand mixing is permitted.
- \* Place 80% of water required in a concrete mixer [100% in case of a grout mixer].
- \* Slowly add the required amount of K2 GROUT NSFF while continuously stirring for 1 minute. add balance quantity of water (20%) and mix for 3 to 5 minutes. the mixed grout should be placed immediately and grouting should be continued till the cavity is filled.

##### Curing :

Curing must be done after grouting for 3-4 hours. all exposed areas must be cured with wet hessian clothes (keep wet always) or water pending wherever possible for minimum 7 days..

**BOLT POCKETS :** Depending on the size of the bolt pockets, 50-100% clean 10mm should be incorporated to economize on grout and also to keep the heat of hydration low. when the thickness exceeds 100mm -150mm our technical department may be contacted for advice. there must be at least 12 hours gap between bolt pocket and under bases plate grouting sequence

**UNDER BASE PLATE :** Leak proof strong frame work must be provided to withstand operational stresses while grouting and all edges must be sealed with K2 GROUT NSFF of trowelling consistency to arrest the grout from flowing out of framework. the sealed edges must be strong enough to resist fluid grout (at least 1-2 hours after sealing). hydrostatic head 150-250mm must be provided to enable the free flowing of grout under base plate. grouting must be continuous until the cavity is completely filled to the desired level. the exposed areas must be kept to a minimum of 100-150mm on the grouting side and 50mm on the opposite side. all exposed areas must be restricted by covering with wooden planks or polythene sheets with sand sprinkled on top of the sheet to avoid cracks on the grouted surface.

**PACKING:** K2 GROUT NSFF is available in 25kg bag.

**SHELF LIFE & STORAGE :** K2 GROUT NSFF will have a shelf life of 6 months in unopened containers when kept in dry conditions at a temperature between 5°C to 45°C. storage at higher temperature or high humidity may reduce shelf life.



# WALL PUTTY

## K2 WALL PUTTY | WHITE CEMENT BASED WALL PUTTY

**DESCRIPTION :** K2 WALL PUTTY is a water resistant white cement based putty, is ideal for use on internal & external walls and ceilings. K2 WALL PUTTY binds strongly with the base plaster, even if the surface is damp, and forms a protective base. K2 WALL PUTTY fills up the fine pores in the walls and ceiling and provides a white, smooth and dry surface, essential for painting. K2 WALL PUTTY has more adhesion strength, durability, & enhances the life of paints. K2 WALL PUTTY offers you total protection against flaking, you are assured of a good looking home for years to come.

**AREA OF APPLICATION :** All type of plasters and concrete wall, ceilings, aerated light - weight blocks, hollow blocks.

### BENEFITS :

- \* Ready-to-use, Easy applicability & self curing.
- \* Excellent efflorescence resistance.
- \* Smoothen the wall with excellent finish.
- \* Decrease paint consumption.
- \* Enhance bindings of the paint with the wall.
- \* Excellent resistance to water.
- \* Good adhesion and tensile strength.
- \* Highly durable & suitable for all types of paints.

### TECHNICAL INFORMATION :

- |   |  |
|---|--|
| * Appearance :  | White powder                               |
| * Compressive strength (N/MM <sup>2</sup> ) @ 28 days : | >9.0                                       |
| * Setting time (minute) : Initial :                     | = > 100                                    |
| * Final (minute) :                                      | = < 500                                    |
| * Pot life of thinned material :                        | 2 to 3 hours. (Temp. 30° C, Humidity 65 %) |
| * Dry for re coat :                                     | 6 to 8 hours. (Temp. 30° C, Humidity 65 %) |

### APPLICATION INSTRUCTION :

**Surface preparation :** Remove all loosely adhering material from the wall surface with the help of emery stone, putty blade or wire brush and clean water. the substrate should be clean, free from dust, grease and loose materials. dry and absorbent surfaces should be moistened with sufficient quantity of clean water. after plastering allow to dry the surface at least 8-12 weeks for new walls.

**Mixing :** Mix K2 WALL PUTTY with 30-35 % clean water slowly to make a paste. continue the mixing for 10-15 minutes till a uniform paste is formed. it should be used within 2 to 3 hours of preparation. mixing may be done manually or by using a suitable electric mixer.

**Application :** Ensure that surface is totally clean. the surface should be moderately rough and in just wet condition. apply 1<sup>st</sup> coat of K2 WALL PUTTY using a blade on the wall with a bottom to up configuration. apply 2<sup>nd</sup> coat of K2 WALL PUTTY preferably after 6 hours in summers and after 8 hours in winters. second coat shall be applied horizontally to even out application marks of 1<sup>st</sup> coat, if any. the total thickness of the coats should be limited to maximum 1.5 mm. always prepare a required quantity of putty and use it within 2-3 hours of mixing with water. allow complete drying for 3 days and then use a fine emery paper (not less than 500 number) to remove application marks, if any.

**PRECAUTIONS :** Use the thinned mixture within 3 hours. the total thickness of the 2 coats should be limited to maximum 1.5 mm. putty should be done over fully cured surface. avoid inhalation during mixing and handling.

**COVERAGE :** 15-20 sq.ft./k.g/mm (This varies as per porosity and texture of the surface.)

**PACKING :** K2 WALL PUTTY is available in 20 kg and 40 kg bag.

**SHELF LIFE AND STORAGE :** Shelf life is 12 months from the date of manufacturing. the material should be stored between 5° C to 40° C and avoid exposure to sunlight.



# K2 LEVELCOAT

WHITE CEMENT BASED WATER PROOF  
WALL LEVELER

**DESCRIPTION :** K2 LEVELCOAT is a white cement based water proof product for all types of internal and external leveling and thin plastering applications over concrete and mortar wall surface. it works as new high strength leveling material, it aims the leveling the coarse base, reducing the amount of putty and buffering the stresses from base. it provides a protective base for your expensive paints. it's superior water resisting properties prevent the paint from flaking even if the walls are damp. it's used to fill fine pores in walls and ceilings, so you get the smooth, dry surface that's so essential for painting. it gives the putty layer higher ability of anti crack and anti impact / damage. K2 LEVELCOAT has better water- resistance, adhesive strength and durability than ordinary.

**AREA OF APPLICATION :** K2 LEVELCOAT is suitable for Interior and exterior concrete and plaster wall surface. directly applied over RCC surface such as ceilings, columns and block work. widely used on all kinds of stable shrink cement mortar based for repairing and leveling.

#### BENEFITS :

- \* Ready to use, needs only mixing with water .
- \* Due to good bonding property it is more durable.
- \* Excellent whiteness and finishing so gives good exposure.
- \* Application of K2 LEVELCOAT with workmanship gives proper levelling to the vertical face.
- \* Prevents growth of algae and fungus on walls.
- \* High strength and breathing property.
- \* Eliminating micro crack.
- \* Excellent anti crack performance.
- \* Environment friendly, non toxic, odorless.
- \* Excellent adhesion, waterproofing characteristics and non-shrinkage.
- \* Saves paints and needs no curing.

#### TECHNICAL INFORMATION :

- \* **Appearance :** White color powder
- \* **Consistency :** Thick paste
- \* **Mixing ratio :** 3 Part Levelcoat : 1 part water
- \* **Drying time-surface dry :** 45 minutes
- \* **Pot life :** 30 minutes at 27°C
- \* **Recoating period:** 6 hours

**APPLICATION INSTRUCTION :** Surface must be sound and thoroughly clean before application of K2 LEVELCOAT. grease, oil, fungus must be removed with a chemical remover. all loose particles of mortar, old wallpaper, paint etc. must be physically removed and clean the surface with water. K2 LEVELCOAT should be mixed with clean water in the ratio 3 : 1 by weight ( 3 part K2 LEVELCOAT: 1 part water). a slow speed mixing paddle is ideal for mixing. add powder to water and mix until a uniform, lump free consistency is achieved. add requisite quantity water to achieve the required consistency.

K2 LEVELCOAT should be apply on the substrate with the help of putty blade. allow the surface to dry completely before next coat. allow it to dry for 24 hours and finally if required gently rub the dried surface, with +500 no. sand paper. the surface is now ready for painting.

**COVERAGE :** K2 LEVELCOAT has a coverage of 5.5 to 7 sq ft per kg when applied at a thickness of 1mm. the higher flatness of substrate the fewer amounts needed. coverage varies depending on the surface and application thickness.

**PACKING :** K2 LEVELCOAT is available in 30 kg bag.

**SHELF LIFE AND STORAGE :** Shelf life is 12 months from the date of manufacturing. store the material in cool and dry place. Keep away from direct sunlight and heat.



# TILING SOLUTION

## K2 NEWFIX | WATERPROOF AND NON SHRINK TILE ADHESIVE

**DESCRIPTION :** K2 NEWFIX is polymer modified grey cement based powder tile adhesive need to be mixed with water and most suitable for installation of tiles on cementitious surface of internal plastered wall and floor. it provides excellent adhesion and waterproofing properties.

**AREA OF APPLICATION :** Suitable for fixing all types of tiles on internal floor and ceramic as well as porcelain tiles on plastered wall substrate.

### BENEFITS :

- \* Ready to use, needs no curing.
- \* Excellent resistant to water.
- \* Low shrinkage and crack resistant.
- \* Excellent adhesion.
- \* Flexible to accommodate thermal movement.
- \* Time saving and increases productivity.

### TECHNICAL INFORMATION :

- \* **Appearance :** Grey cement powder
- \* **Bed thickness :** 3-6 mm
- \* **Mixing ratio :** Approx. 6 liter water in 20 kg pack
- \* **Pot life :** Approx. 1 hours at 27°
- \* **Open time :** Approx. 15 minutes at 27°
- \* **Time to traffic :** 24 hours

### SURFACE PREPARATION :

- \* Surface should be sound and clean, free from dust, grease, oil, loose material, paint etc.
- \* Movement joints to be filled with suitable joint filler.
- \* The surface must be in SSD condition before application.

### APPLICATION INSTRUCTIONS :

**Mixing :** K2 NEWFIX 20 kg powder to mix gradually in approx. 6 liter of clean water and mix thoroughly until a slump free mortar achieved.

- \* Mix with a trowel or slow speed drills for homogeneous mix.
- \* Allow it to slake for 5 minutes. mix the required quantity, which can be used within 60 minutes.

### \*Application

- \* Spread the adhesive uniformly on the surface.
- \* Comb the surface with notched trowel to required depth of 3-6 mm.
- \* Press the tiles firmly into position with a slight twisting action, ensure that good contact is maintained. back of each tile with a surface and eliminate the possibility of any air void.
- \* Tiles should be applied within 15 to 20 minutes of adhesive being applied.
- \* Keep adequate joints between two tiles using spacers.
- \* Clean off surplus adhesive from the tile face and between joints.

### \*Precautions :

- \* Always add powder to water and never add water to powder.
- \* Not recommended for vertical cladding of heavy tiles and stones.
- \* Never add excess water than recommended.
- \* Surface should be hard and in sound condition for floor tiling.

**COVERAGE :** 50-55 sq ft for 20 kg bag at 3 mm thickness. 30-35 sq ft for 20 kg bag at 5 mm thickness.

**PACKING :** K2 NEWFIX is available in 20 kg bag.

**SHELF LIFE & STORAGE :** Shelf life is 12 months from the date of manufacturing. store the material in cool and dry place.



## K2 UNIFIX | Cementitious Polymer modified high performance non shrink tile adhesive

**DESCRIPTION :** K2 UNIFIX is a cementitious polymer modified high performance tile adhesive need to be mixed with water and most suitable for fixing of ceramic and vitrified tiles on cementitious surface of internal and external plastered wall and floor. it provides excellent adhesion and waterproofing properties. this is a suitable for tile on tile application.

**AREA OF APPLICATION :** Permanent fixing of ceramic and vitrified tiles in internal and external wall and floor substrate as well as tile on tile application.

### BENEFITS :

- \* Ready to use, needs no curing.
- \* High adhesive bond strength.
- \* Non slip and has excellent grab properties.
- \* Excellent waterproofing properties.
- \* Non shrinkage and crack resistant.
- \* Flexible to accommodate thermal & physical movement.
- \* Time saving and increases productivity.

### TECHNICAL INFORMATION :

Sr.No.	Properties	Results
1	Appearance	Grey cement powder
2	Bed thickness	3-6 mm
3	Mixing ratio	Approx. 6 ltr water in 20 kg pack
4	Pot life	Approx. 1 hours at 27°
5	Open time	Approx. 15 minutes at 27°
6	Time to traffic	24 hours

### SURFACE PREPARATION :

- \* Surface should be sound and clean, free from dust, grease, oil, loose material, paint etc.
- \* Movement joints to be filled with suitable joint filler.
- \* The surface must be in SSD condition before application.

### Mixing :

- \* K2 UNIFIX 20 kg powder to mix gradually in approx. 6 liter of clean water and mix thoroughly until a slump free mortar achieved.
- \* Mix with a trowel or slow speed drills for homogeneous mix.
- \* Allow it to slake for 5 minutes.
- \* Mix the required quantity, which can be used within 60 minutes.

### Application

- \* Spread the adhesive uniformly on the surface.
- \* Comb the surface with notched trowel to required depth of 3-6 mm.
- \* Press the tiles firmly into position with a slight twisting action, ensure that good contact is maintained back of each tile with a surface and eliminate the possibility of any air void.
- \* Tiles should be applied within 15 to 20 minutes of adhesive being applied.
- \* Keep adequate joints between two tiles using spacers.
- \* Clean off surplus adhesive from the tile face and between joints.

### PRECAUTIONS:

- \* Always add powder to water and never add water to powder. never add excess water than recommended.
- \* Not recommended for cladding of heavy stones.
- \* Surface should be hard and in sound condition for floor tiling.
- \* Not recommended for tiling on paint, wood, metal and gypsum plaster.



**COVERAGE :** 50-55 sq ft for 20 kg bag at 3 mm thickness. 30-35 sq.ft. for 20 kg bag at 5 mm thickness

**PACKING :** K2 UNIFIX is available in 20 kg bag.

**SHELF LIFE AND STORAGE :** Shelf life is 12 months from the date of manufacturing. store the material in cool and dry place.

## K2 ULTRAFIX | HEAVY DUTY TILE ADHESIVE

**DESCRIPTION :** K2 ULTRAFIX is highly polymer modified, high strength, cement based tile adhesive specially designed for fixing heavy duty tiles and natural stones on internal and external surfaces. It is also applicable for tile on tile application because it provides excellent bonding. It is a flexible adhesive with excellent waterproofing properties.

**AREA OF APPLICATION :** K2 ULTRAFIX is used for fixing all type of tiles and natural stones on internal and external wall and floor substrate. (provided they are not sensitive to moisture).

### BENEFITS :

- \* Ready to use, needs only mixing with water.
- \* Easy application & better workability.
- \* Excellent adhesion, non-shrinkage.
- \* Deformable cementitious adhesive.
- \* Excellent waterproofing characteristics.
- \* Sufficiently flexible to accommodate thermal & physical movements.
- \* High strength.
- \* Needs no curing & soaking of tiles.
- \* Floors can be used after 24 hours.

### TECHNICAL INFORMATION :

- \* **Appearance :** Grey color powder
- \* **Bed thickness:** 6 - 12 mm
- \* **Mixing ratio :** Powder = 20 kg, water = 6 liter
- \* **Open time :** 15-20 minutes
- \* **Pot life :** 1 hours at 27°C
- \* **Ready for grouting on wall :** After 4-8 hours
- \* **Ready for grouting on floors :** After 24 hours
- \* **Set to light foot traffic :** 24 hours
- \* **Ready to use :** 14 days

### APPLICATION INSTRUCTION :

\* Surface must be sound, clean and free from dirt, oil or grease before K2 ULTRAFIX is applied. K2 ULTRAFIX can be applied directly on concrete, cement screed, and cement or lime mortar. Care must be taken to new construction prior to commencing tiling. Tiles should not be placed on concrete or block work until all shrinkage movement has taken place.

\* 20 kg K2 ULTRAFIX should be mixed with 6 liter of clean water. A slow speed mixing paddle is ideal for mixing. Add powder to water and mix until a uniform, lump free consistency is achieved. Add requisite quantity of water to achieve the required consistency.

\* K2 ULTRAFIX should be spread on the substrate to a uniform thickness of 6-12 mm, and then combed horizontally with serrated trowel. Check for undulations and even the surface with K2 ULTRAFIX and place tiles firmly in to adhesive bed, ensuring good contact with a twisting motion.

**COVERAGE :** 23-25 sq.ft. / 20 kg bags at 6mm thickness. Coverage varies depending on the surface and application thickness.

**PACKING :** K2 ULTRAFIX is available in 20 kg bag.

**SHELF LIFE AND STORAGE :** Shelf life is 12 months from the date of manufacturing. Store the material in cool and dry place. Keep away from direct sunlight and heat.



## K2 WHITE GTA | GLASS MOSAIC AND MARBLE ADHESIVE

**DESCRIPTION :** K2 WHITE GTA is a high performance white cement based polymer modified adhesive suitable for fixing glass mosaic, glass tiles and marble for internal as well external surfaces.

**AREA OF APPLICATION :** Designed specially for fixing of glass mosaic, glass tile, marble and natural stones on internal and external wall & floor surfaces.

### BENEFITS :

- \* Ready to use, needs to be mixed with water only.
- \* Suitable for tile on tile application.
- \* Low shrinkage and water resistant.
- \* Excellent adhesion.
- \* Needs no curing, floor can be used after 24 hours.

### PROPERTIES :

- \* **Appearance :** White powder
- \* **Bed thickness :** 2-12 mm
- \* **Mixing ratio :** 5.5 to 6 ltr water in 20 kg pack
- \* **Pot life :** Approx. 2 hours at 27°C
- \* **Open time :** Approx. 20 minutes at 27°C
- \* **Time to traffic :** 24 hours
- \* **Tensile adhesion :** 7 days 1.5 N/mm<sup>2</sup>
- \* **Shear bond strength :** 28 days 0.5 N/mm<sup>2</sup>
- \* **Direct pull of strength :** 1.4 N/mm<sup>2</sup> at 28 days

**STANDARD :** ANSI A 118.1 – 1999 AND A 118.4 – 1999 • BS – 5980

### SURFACE PREPARATION :

- \* Surface should be sound and clean, free from dust, grease, oil, loose material, paint etc.
- \* Rough or uneven surface should be leveled with suitable polymer modified mortar.
- \* The surface must be in SSD condition before application.

**Mixing:** K2 WHITE GTA 20 kg powder to mix gradually in approx. 6 ltr of clean water and mix thoroughly until a slump free mortar achieved.

- \* Mix with a trowel or slow speed drills for homogeneous mix. Allow it to slake for 5 minutes.
- \* Mix the required quantity, which can be used within 60 minutes.

### Application:

- \* Spread the adhesive uniformly on the surface with a notched trowel.
- \* Comb the surface with notched trowel to required depth of 2-6 mm.
- \* Press the tiles firmly into position with a slight twisting action, ensure that good contact is maintained back of each tile with a surface and eliminate the possibility of any air void.
- \* Tiles should be applied within 15 to 20 minutes of adhesive being applied.
- \* Clean off surplus adhesive from the tile face and between joints.

### COVERAGE :

- \* Marble 20 - 25 sq. ft. for 20 kg bag at 6 mm thickness.
- \* Glass tiles 50 - 60 sq. ft. for 20 kg bag at 3 mm thickness.
- \* Glass mosaic 75 - 80 sq. ft. for 20 kg bag at 2 mm thickness.

**PACKING :** K2 WHITE GTA is available in 20 kg. pack.

**SHELF LIFE AND STORAGE :** Shelf life is 12 months from the date of manufacturing. Store the material in cool and dry place.



## K2 TILEOADD | LIQUID ADDITIVE FOR TILE ADHESIVE

**DESCRIPTION :** K2 TILEOADD is a liquid flexible additive for use with cement slurry, tile grout and tile adhesive. it is specially formulated to provide a strong, super flexible bond for tiling on internal and external cement surface.

### AREA OF APPLICATION :

- ★ On site mix additive for fixing tiles on conventional method / leveling bed application. it is suitable for internal and external application in residential as well as commercial areas like shops, malls, club houses etc.
- ★ It is suitable for mix with cement based polymer grouts and tile adhesives for better strength.

### BENEFITS :

- ★ High bond strength.
- ★ Shock resistance with higher flexibility.
- ★ Excellent waterproofing characteristics.
- ★ Needs no curing and soaking of substrate or tile.
- ★ Easy of application.
- ★ Non hazardous & non-flammable liquid.

### PROPERTIES :

- ★ **Appearance :** Milky white color liquid
- ★ **Specific gravity :** 1.010
- ★ **Pot life :** No significant effect
- ★ **Open time :** No significant effect
- ★ **Setting time :** Reduces the setting time
- ★ **Water demand :** Reduces the water demand by 10 to 30 %
- ★ **Compatibility :** Compatible with K2 NEWFIX, K2 UNIFIX & K2 WHITE GTA

### APPLICATION INSTRUCTION :

**Surface preparation :** Refer technical data sheet of K2 TILE ADHESIVE

**Mixing :** First K2 TILEOADD to be mixed with water before adding to the tile adhesive. approximately 10 to 30% water can be reduced depending upon dosage & tile adhesive.

Mix with a trowel / slow speed drills (50 - 100 rpm) until a lump free homogeneous paste is obtained.

Allow it to slake for 5 minutes.

Mix the required quantity, which can be used within the 60 minutes pot life.

Additionally it can also be used along with 1:3 cement sand mortar. along with neat cement it can be mixed to make slurry to fix the tiles on floor over cement sand bedding.

**Application :** Refer technical data sheet of K2 TILE ADHESIVE.

**PRECAUTIONS :** Always add powder to liquid and never add liquid to powder, do not add more liquid than recommended.

**DOSAGE :** 1 to 2 liter per 20 kg of K2 TILE ADHESIVE.  
1 liter per bag of cement for conventional method and cement sand mortar application.  
200 ml per 1 kg of K2 COLORFIL TJF.

**PACKING :** K2 TILEOADD is available in 1 liter and 5 liter pack.

**SHELF LIFE AND STORAGE :** Shelf life is 12 months from the date of manufacturing. store the material in cool and dry place. keep away from direct sunlight and heat.



## K2 MULTI CLEAN | Cleaning and itching agent

**DESCRIPTION :** K2 MULTI CLEAN is synergic blend of surfactant, and acid cleaner for cleaning of concrete surfaces, ceramic tiles, vitrified tiles, granites, toilet bowls, ceramic sinks and wash basin. helps in removal of hardened concrete from tools and machinery. its most suitable for residential and commercial use.

### AREA OF APPLICATION :

- ★ For itching of concrete surfaces prior to application of coatings and staining.
- ★ For cleaning of rubber and metal moulds of concrete precast and paver blocks, concrete hollow blocks.
- ★ For cleaning of concrete surfaces, ceramic tiles, vitrified tiles, granites, toilet bowls, ceramic sinks and wash basins.
- ★ Removal of hardened concrete from tools and machinery.
- ★ Removal of mortar and plaster runs, debris, stains and droppings from brick work, stones and concrete surfaces.

### BENEFITS :

- ★ Excellent itching properties for concrete surfaces.
- ★ Multi purpose cleaning agent.
- ★ Helps in removing of most stubborn stains.
- ★ Keeps surfaces intact.
- ★ Fast acting formula.
- ★ Mild fragrance.

### TECHNICAL SPECIFICATION :

- ★ **Type :** Acidic
- ★ **Appearance :** Light green clear liquid
- ★ **Special gravity :** 1.080

**DILUTION :** K2 MULTI CLEAN can be dilute with water and use as required. the dilution ratio depends upon the nature of application and type of deposits. the best dilution ratio can be decided by applying on a small area.

**STANDARD DILUTION :** 1 part K2 MULTI CLEAN can be diluted with 1 to 4 part of water.

**APPLICATION INSTRUCTIONS :** Apply K2 MULTI CLEAN on the surface to be cleaned with a required dilution depending on the surface.

- ★ The cleaning action can be seen by generation of small effervesces on surface.
- ★ Allow to stand for few minutes. brush with stiff plastic brush or broom.
- ★ A wire brush can be used when cleaning or itching concrete surfaces, metal tools or machines. wash down with clean water. reapply if necessary.

**DIP CLEANING :** Small tools can be dipped in diluted K2 MULTI CLEAN and cleaned by stiff brush.

### PRECAUTIONS AND LIMITATION :

- ★ Do not use on marble stone, zinc and galvanized steel.
- ★ Proper ventilation in work area any specific surfaces not mentioned above may require trials on small area before large application.

**COVERAGE :** Approximately 5sq. mtr. to 10sq. mtr. per liter depending on dilution and porosity and condition of substrate to be cleaned.

**PACKING :** K2 MULTI CLEAN is available in 500 ml., 1 liter. and 5 liter pack.

**SELF LIFE AND STORAGE :** 12 months from the date of manufacturing and it should be stored in cool and dry place.



# K2 JAYLASTIC T

TWO PART POLYURETHANE BASED HEAVY DUTY TILE ADHESIVE

**DESCRIPTION :** K2 JAYLASTIC T is a two part polyurethane based solvent and water free tile adhesives which are flexible, waterproof, high adhesion and chemical and mechanical resistance laying with no vertical slip on rigid and non-absorbent substrates.

**AREA OF APPLICATION :** K2 JAYLASTIC T can be used for indoor and outdoor, bonding of wall and floor ceramic tiles, porcelain tiles, marble, stone material and mosaics of all types on: concrete, screeds, renders, asphalt, wood, metal, PVC, reinforced polyester, asbestos-cement sheet, gypsum – plaster, board, panels, putty, absorbent and non-absorbent substrates, rigid substrates.

**BENEFIT :**

- ★ Ultra high strength and adhesion.
- ★ Water proof & flexible.
- ★ No vertical slip.
- ★ Suitable for laying porcelain tiles, ceramic tiles and natural stone.
- ★ Good resistance to acids and ageing.
- ★ Long mixture pot life -easy and fast to apply.
- ★ Perfect adhesion to all surfaces used in building.
- ★ Hardens by chemical reaction without shrinkage (until it becomes highly resistant);
- ★ High deform ability.

**Highly thytrotrophic:** it can be applied vertically without slump and without letting even heavy or large tiles slip.

**PROPERTIES :**

- ★ **Appearance :** Part – A(base) – white thick paste  
Part – B(Hardner) – fluid liquid
- ★ **Consistency of mix :** Very viscous
- ★ **Pot life :** 40 minutes
- ★ **Open time :** 60 minutes
- ★ **Adjustability :** 60 minutes
- ★ **Setting time :** Initial – 8 hour, Final – 12 hour
- ★ **Foot Traffic- normal :** 24 hours
- ★ **Ready to use :** 7- days
- ★ **Temperature range for application :** From + 15°C to +40° C
- ★ **Adhesion to concrete after 7 days :** 3.5 N/ mm<sup>2</sup>
- ★ **Resistance to ageing :** Good
- ★ **Resistance to solvents and oils :** Good
- ★ **Resistance to acids and alkalis :** Good
- ★ **Deform ability :** Highly deformable
- ★ **Resistance to temperature :** From -40°C to + 100° C

**APPLICATION INSTRUCTION :**

**Surface preparation:** Substrates must be compact and consistent, free from dust, rust, oil and grease, free from any moisture rising, with no loose and flaky debris or imperfectly anchored parts. the substrate must be stable, non-deformable, without cracks and have already completed the curing period of hygrometric shrinkage. uneven areas must be corrected with suitable smoothing and finishing products rust on iron surfaces must be removed by sandblasting. it is recommended to reinforce gypsum, gypsum board and anhydrite substrates with a coat of K2JAPOXY PRIMER.

**Mixing :** Pour the part B (hardener) into part A (base) and mix well until a uniform white paste is obtained. it is advisable to use a low speed electric stirrer to ensure perfect mixing and avoid overheating the mix, which would reduce the working time. use the mix within 40 minutes of mixing. the user must mix a quantity of adhesive which can be consumed within 1 hour.

**Application:**

- ★ Apply to the substrate a uniform layer of K2 JAYLASTIC T with a notched trowel. for exterior installations, the tile backs must be completely covered with the adhesive. when both waterproofing and bonding are required.
- ★ For wooden surface, spread K2 JAYLASTIC T on the substrate with a flat trowel to a thickness of at least 2 mm; then rework the surface with a notched trowel so as to line it all over, but without reducing the thickness to less than 1 mm. this thickness must be maintained even after the tiles have been installed.

**CLEANING :** Tools and mixers should be cleaned with water and alcohol immediately after use.

**PRECAUTIONS :**

- ★ Do not use on very damp surfaces or where there is a risk of rising damp.
- ★ The packs are pre-measured, therefore mixing errors are impossible. do not use partial quantities, a wrong mixing ratio could cause damage during the curing process.
- ★ Use the products in temperatures between + 15°C to +40°C.
- ★ In case of use on surfaces subject to continuous immersion in water, consult the K2 Technical Services.
- ★ Department beforehand.

**COVERAGE :** 3.2 kg mixed material covers 1 M2 at 2 mm thickness. the coverage can vary as per the depending on surface.

**PACKING :** K2 JAYLASTIC T is available in 10 kg pack.

**SHELF LIFE :** K2 JAYLASTIC T has a shelf life of 12 months in unopened packs, if kept in a dry store. and protect from direct sun light. part B (hardener) must be stored in warm place to avoid crystallization during cold weather (at least at + 10°C). should crystallization occur, re-dissolve by warming before use. stir the product before use.





# K2 EPOXYFIL TJF

THREE COMPONENT HIGH STRENGTH EPOXY BASED TILE JOINT FILLER

**DESCRIPTION :** K2 EPOXYFIL TJF is a three component, epoxide resin-based grout with hygienic, hard-wearing, impervious, a high degree of resistance to chemical attack and abrasion for heavy duty applications. the cured material does not transfer taints to foodstuffs, does not permit the entry of bacteria or dirt and is easily maintained in a sterile condition.

**AREA OF APPLICATION :** Restaurants, hotels, kitchens, bathrooms, lobbies, swimming pools, showrooms, shopping malls, multiplexes, laboratories, food & breweries industries, operating theaters, clinics, production and storage workshops.

**BENEFITS :**

- Impermeable to liquids and easy to sterilize, clean and maintain.
- High bond strength.
- Durable and crack resistant and non powdering.
- Provides hygienic, hard wearing and impervious properties.
- Non toxic & restricts entry of bacteria/ dirt.
- Resistance to most common chemicals.

Properties	Results
Specific gravity (mixed) :	1.85
Pot life :	60 minutes @ 30°C
Setting time :	24 hours @ 30°C
Shear strength (14 days) :	>30 KN
Compressive strength (7 days) :	800 kg / cm <sup>2</sup>
Joint width :	2 - 20 mm

**SURFACE PREPARATION :** Before commencing grouting, ensure that the tiles fixed are sound and joints are free from tile fixing adhesive. the tile joints should be free from any contamination, dust, oil and water. clean and dry the joints by possible means and ensure that they are not in damp condition.

**Mixing :** Shake the tin of hardener and stir the base prior to mixing. add all of the hardener to all of the base in a suitable, clean container and mix together thoroughly. if an electric drill mixer is used, mix at a slow speed (less than 300 rpm) add slowly the pre-measured quantity of the filler, mixing thoroughly until all of the filler is dispersed and a uniform color and lumps free consistency is achieved.

**Application :** Using a hard rubber squeeze, press the grout firmly in to the joints ensuring that the joints are completely filled.

- Clean off the surplus grout from tile joints and surface within 10-15 minutes. initially use a rough textured sponge dampened with clean water to clean the excess grout and to remove the grout residue.
- Use the damp sponge in a circular motion and keep it relative to the tile surface to achieve the flush joint.
- Do not allow water to flow or run into ungrouted joints.
- Clean the epoxy/water residue with a fine textured damp sponge in a circular motion, taking care not to drag epoxy grout from joints.

**Precautions**

- Do not apply K2 EPOXY GROUT on wet/damp tile joints, always apply on completely dry tile joints.
- Do not over mix the material. over mixing can reduce the pot life of the mixed quantity.
- Ensure adequate ventilation during application in working places.
- Apply masking tapes along tile joints while working on unglazed floor tiles, with matt glaze or textured surfaces
- Part mixing is not allowed.

**K2 GLITTER :** For sparkle effect use K2 Glitter gold / silver :- 100 gm pack for 3 kg of K2 EPOXYFIL TJF.

**COLOR :** Available in attractive shades , refer shade card. and also available in night glow.

**COVERAGE :** Refer data sheet and coverage table .the coverage mentioned in table is indicative only and can vary as per the tile size, thickness, joint width & wastage during application.

**PACKING :** K2 EPOXYFIL TJF is available in 1 kg = kit 1 (part A 185 gm + part B 90 gm) & kit 2 (part C 725 gm) 5 kg = kit 1 (part A 925 gm + part B 450 gm) & kit 2 (part C 725 gm X 5 nos.)

**SHELF LIFE AND STORAGE :** Shelf life is 12 months from the date of manufacturing. store the material in cool and dry place.

**COVERAGE TABLE IN SQUARE METER : KG / SQUARE METER OF K2 EPOXYFIL TJF**

Joint width in MM	Tile size ( length x breadth ) in MM								
	100X100 X3 mm	150X150 X4 mm	200X150 X5 mm	150X300 X6 mm	300X300 X6 mm	450X300 X7 mm	600X450 X8 mm	600X600 X8 mm	600X900 X11 mm
2	0.22	0.20	0.22	0.22	0.15	0.14	0.12	0.10	0.11
3	0.33	0.30	0.32	0.33	0.22	0.22	0.17	0.15	0.17
4	0.44	0.39	0.43	0.44	0.29	0.30	0.23	0.20	0.23
6	0.67	0.59	0.65	0.67	0.36	0.43	0.35	0.30	0.34
8	0.89	0.79	0.86	0.89	0.43	0.58	0.46	0.39	0.45
10	1.11	0.99	1.08	1.11	0.50	0.72	0.58	0.49	0.57
12	1.33	1.18	1.30	1.33	0.57	0.86	0.69	0.59	0.69

Coverage: approx\* in kg / sq. mtr. of K2 EPOXYFIL TJF



# K2 COLORFIL TJF | PIGMENTED POWDER TILE JOINT FILLER IN KITCHEN, BATHROOM, TOILETS, SHOWER STALLS & SWIMMING POOLS

**DESCRIPTION :** K2 COLORFIL TJF is a formulation of specially selected cements, fillers, pigments and synthetic organic polymers. when added to water it readily blends to produce a smooth creamy paste which when set is water, fungus and mould resistant.

**AREA OF APPLICATION :** Kitchens, bathrooms, toilets, shower stalls, swimming pools & aquariums.

**BENEFITS :**

- \* Cost effective service life, fungus & mould resistant, tropicalised.
- \* Easy to apply by adding water for a thixotropic, non-slump grout.
- \* Ideal for use in submerged condition.
- \* Available in a range of attractive colors.

**PROPERTIES :**

- \* Working time at 20°C : 90 minutes
- \* Working time at 35°C : 30 minutes
- \* Compressive strength : 38N/mm<sup>2</sup>@28 days (ASTMC 109)
- \* Tensile strength : 3N/mm<sup>2</sup>@28days (BS639: Pt7)

**APPLICATION INSTRUCTIONS :**

**Preparation :** All tiles must be securely laid and fixed in place and thoroughly cleaned before K2 COLOFIL TJF is applied. the gap between tiles should not exceed 4mm. tile joint filling should only be done 24 hours after fixing the tiles.

**Mixing :** 300ml of water is required for each kg of K2 COLORFIL TJF. add powder to water and mix until a uniform, lump-free, thick creamy paste is produced, allow to stand for ten minutes before use.

**Application :** K2 COLORFIL TJF is applied to the spaces between the tiles using a sponge or a small piece of soft cloth. pack the mixture into the joints and around the edges. remove excess material from the face of the tiles with a dry cloth and run the tip of a gloved finger or suitable rounded tool along the grout to level it off and form a profile. when the grout is dry, clean the tiles with a damp sponge to remove any excess material. it is advisable to remove uncured grout from textured tiles prior to setting, failure to do so may result in hardening and difficulty in removal.

**Cleaning :** K2 COLORFIL TJF should be removed forms tools, equipment and mixers with clean water immediately after use.

**Precautions :** K2 COLORFIL TJF should not be used when the temperature is below 5°C and falling. the product should not be exposed to moving water during application.

**COVERAGE :** K2 COLORFIL TJF: approx 49 running meter of 3mm X 5mm joint / kg.

**PACKING :** K2 COLORFIL TJF is available in 500 gm and 1 kg pack.

**STORAGE & SHELF LIFE :** K2 COLORFIL TJF shelf life is 12 months if kept in a dry place in the original, unopened bags or packs.

Tile Size ( length x breadth ) & depth in mm						
Joint width in MM	150x150 4 mm	200x300 4 mm	330x250 5 mm	450x300 7 mm	600x450 8 mm	600x600 8 mm
2	0.19	0.12	0.13	0.14	0.11	0.08
3	0.29	0.18	0.19	0.21	0.17	0.14
4	0.38	0.3	0.25	0.28	0.22	0.17
5	0.48	0.31	0.32	0.35	0.28	0.24

Coverage: approx\* in kg / sq. mtr. of K2 COLORFIL TJF



# K2 SOFT CLEAN | NON ACIDIC WALL AND FLOOR TILE CLEANERS

**DESCRIPTION :** K2 SOFT CLEAN is a detergent based super concentrated, multipurpose, fast acting non acidic and antibacterial wall and floor tiles cleaner. the special formulation removes dirt, grease and stains from tile surfaces. when dry the surface is left hygienically clean.

**AREA OF APPLICATION :** Interior and exterior walls, floor tiles (glazed floor tile, marble, stone, and terrazzo etc. like all other tiles.), kitchen, bathrooms. operation theaters, malls & C P fittings.

**BENEFITS :**

- \* Easy to use.
- \* Non acidic.
- \* Fast acting.
- \* Antibacterial.
- \* Shield against microbe.
- \* Provide hygienically clean surroundings.

**TECHNICAL INFORMATION :**

- \* Appearance : Pink colored clear liquid
- \* Standard dilution : 1:2 (K2 SOFT CLEAN : Water)

**APPLICATION :**

- \* Dilution ratio will be 1 part K2 SOFT CLEAN to 2 parts of water.
- \* Pour/spray K2 SOFT CLEAN on the stained area.
- \* For heavier stains leave the cleaner in contact for 5 minutes.
- \* Wipe with clean cloth and thereafter with clean water.

**PRECAUTIONS :**

- \* Keep out of reach of children.
- \* Wear suitable protective clothing, gloves and eyes/face protection.
- \* After contact with skin, wash immediately with plenty of clean water.
- \* In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice.

**PACKING :** K2 SOFT CLEAN is available in 500 ml and 1 liter pack.

**SHELF LIFE AND STORAGE :** Shelf life is 12 months from the date of manufacturing. the material should be stored between 5 °C to 40 °C and avoid exposure to sunlight.



# K2 JAYMASTIC

FILLER, SEALER & GLUE FOR MARBLE, GRANITE & STONE

**DESCRIPTION :** K2 JAYMASTIC is a polyester resins based stone filler and sealer which contains premium grade raw materials that act as long lasting adhesive for providing a strong and permanent bond to stone surface. It is meant for bonding stone to stone as well as for filling the gaps, crack and pinhole in the stone and marble for horizontal & vertical application.

**AREA OF APPLICATION :**

- \* K2 JAYMASTIC is used for filling the gaps, crack and pinhole in the stone, granite and marble.
- \* It is used for filling the joint between marble to marble, granite to granite and stone to stone.
- \* It is used for fixing stone on stone.

**BENEFITS :**

- \* It gives excellent bonding between all type of stone joints.
- \* It is a quick setting marble glue which can fill the gap effectively.
- \* It is a long lasting, strong and permanent bond to stone & marble surfaces.
- \* Easy to use.
- \* Joints looks beautiful and joint less.
- \* It gives excellent shining after polishing to any stone surface.

**TECHNICAL INFORMATION :**

Sr. No.	Properties	Results
1	Appearance	Viscous liquid to thick paste
2	Variants	Solid and liquid variants
3	Color	Ivory, white and neutral
4	Pot life	3 - 7 minutes

**APPLICATION INSTRUCTION :**

- \* Ensure that marble and stone to be rectified is dry, clean and free from dust.
- \* If it is necessary to correct color, use the coloring paste.
- \* Take required amount of base and mix 2 to 3 % hardener by weight.
- \* Mix the base and hardener thoroughly.
- \* Use this mixture to fill the gaps, cracks and pinholes of marble and stone.

**PRECAUTIONS :**

- \* Always use separate spatula to take out base from the tin.
- \* Do not return unused mix material in tin.
- \* Keep base and Hardener away from direct sunlight.
- \* Keep the lid of tin and Hardener tube properly shut, when not in use.

**PACKING :**

Variants	Base - solid	Base - liquid	Hardener
White	1.5 kg	1.5 kg	45 g
Ivory	1.5 kg	1.5 kg	45 g
Neutral	1 kg	1 kg	30 g

**SHELF LIFE AND STORAGE :** Shelf life is 6 months for base solid and liquid variant. and 6 months for hardener from the date of manufacturing. store the material in cool and dry place. keep away from direct sunlight and heat.



## shade card

(Please refer for Colorfil TJF & Epoxifil TJF)

White \* ■



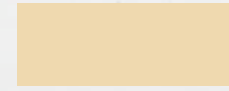
Ocean Blue ■

Ivory \* ■



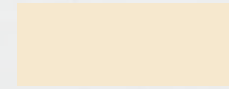
Grey Brown ■

Creamy White \* ■



Smoke Grey ■

Cream \* ■



Dark Green \* ■

Yellow \* ■



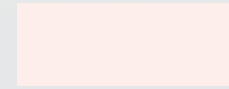
Dark Blue \* ■

Mushroom \* ■



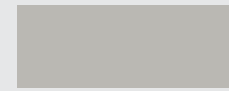
Dark Grey \* ■

Pearly Pink \* ■



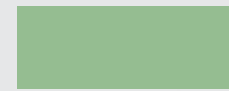
Dark Brown \* ■

Steel Grey \* ■



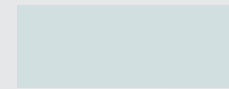
Kota Green \* ■

Pista Green \* ■



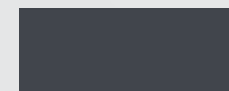
Terra Red \* ■

Sky Blue \* ■



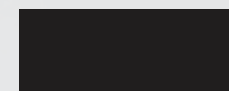
Coffee ■

Sage Green \* ■



Raven ■

Copper Brown \* ■



Black \* ■

- ★ K2 Colorfil TJF is available in selected colors
- K2 Epoxifil TJF is available in selected colors

**NOTE:** While every care is taken during the manufacturing exact matching cannot be guaranteed. Shades shown are for indication only.

# INDUSTRIAL FLOORING



## K2 UNIFLOOR | POWDER SPRINKLE ON, READY TO USE FLOOR HARDNER

**DESCRIPTION :** K2 UNIFLOOR gives heavy duty tough abrasion resistant concrete surface. also provides strong monolithic bonding with concrete at green stage.

**AREA OF APPLICATION :** Floor subjected to heavy wear and tear, heaviest traffics like work shops, industrial floor, ramps, spill ways and loading bays etc.

### BENEFITS :

- \* Smooth, durable, abrasion & wear resistant concrete floor.
- \* Good monolithic bond with surface.
- \* Non-metallic, therefore rust proof surface.
- \* Very easy and handy on application at green stage of concreting.
- \* Prevents damage of floor joints due to heavy trafficking.
- \* Very economical. does not shrink or crack.
- \* Available in range of industrial shades.

### PROPERTIES :

- \* Abrasion resistance (IS 1237-1980).
- \* It improves the abrasion resistance of concrete by 160% when tested as per guidelines of IS: 1237-1980.

### TECHNICAL INFORMATION :

- \* **Physical appearance :** Grey color powder
- \* **Finishing :** Smooth, but anti-skid
- \* **Hardness on mohs scale :** 7
- \* **Compressive strength, (28 days.) :** 60 N/mm<sup>2</sup>
- \* **Chemical resistance :** Passes
- \* Mineral oils, motor oil, mild acid & alkalis salts

### APPLICATION INSTRUCTIONS :

- \* Features of base concrete
- \* Minimum cement content of 300kg/m<sup>3</sup> for base concrete.
- \* Concrete design-mix should be free from segregation and bleeding.
- \* Water –cement ratio should be in controlled with 0.53.
- \* Initial slump retention should be in between 50mm. to 75mm.
- \* It is recommended to use K2 REDUPLAST WPA water reducing admixture at the time of concreting.
- \* The base concrete should be laid and compacted.

**Dosage :** Recommended rate of application for low traffic is 3.5kg./m<sup>2</sup>, medium traffic 5kg./m<sup>2</sup> and 7kg. /m<sup>2</sup> for high and heavy load bearing areas.

**Spreading :** K2 UNIFLOOR should spread or sprinkle as per the requirement at the point when base concrete get stiffened and light foot traffic leaves an imprint of about 3mm. the bleed water should now have been evaporated.

**Finishing :** Finishing should be done with power trowel when the floor gets stiffened sufficiently, so that damage or surface cracks should not be formed.

**Curing :** Curing plays an important role for better and long lasting concrete. the most efficient way to get concrete cured is using curing compound or else go for polythene sheeting or water ponding or wet burlaps.

**Limitations :** For concrete with optimized water cement ratios, K2 UNIFLOOR shall not be sprinkle over 3-4kg/m<sup>2</sup>.

**PACKING :** K2 UNIFLOOR is available in 25 kg bag.

**SHELF LIFE AND STORAGE :** If kept in original unused packing, the shelf life of K2 UNIFLOOR is 12 months from the date of manufacturing.



## K2 UNIFLOOR (M) | HIGH STRENGTH METALIC TOPPING

**DESCRIPTION :** K2 UNIFLOOR (M) is a powder sprinkle, ready to use, factory controlled, iron aggregate & special additives which offer high strength topping, high abrasion and wear resistance. K2 UNIFLOOR (M) makes a floor with non dusty, non slip dense and heavy duty tough characteristics. also provides strong monolithic bonding with concrete at green stage.

**AREA OF APPLICATION :** K2 UNIFLOOR (M) can be used for application to new concrete floor subject to heavy wear and tear, heaviest traffic like workshops, industrial floor, ramps, and loading bays.

### BENEFITS :

- \* Durable and dense hardwearing surface.
- \* Excellent resistance to abrasion and impact.
- \* Resists oil and grease penetration, reduces dusting and absorption.
- \* Protects against joint deterioration.
- \* Minimizes damage to production goods and increase the life of material handling equipment.
- \* Easy of application due to speedable consistency.
- \* Reduces shut down time.

### TECHNICAL INFORMATION :

- \* **Physical appearance :** Grey colored powder
- \* **Finishing :** Smooth
- \* **Hardness on mohs scale :** 8
- \* It improves the abrasion resistance of concrete by 200% when tested as per guidelines of IS: 1237-1980.

### APPLICATION INSTRUCTIONS :

#### Features of base concrete

- \* Minimum cement content of 300kg/m<sup>3</sup> for base concrete.
- \* Concrete design-mix should be free from segregation and bleeding.
- \* Water-cement ratio should be in controlled with 0.53.
- \* Initial slump retention should be in between 50mm to 75 mm.
- \* It is recommended to use K2 REDUPLAST WPA water reducing admixture at the time of concreting.
- \* The base concrete should be laid and compacted.

**Curing :** After final trowelling, as soon as the surface has hardened sufficiently, to prevent damage, it should be covered with a polythene sheet and made air tight by placing sand all round the sheet for a minimum period of 7 days. alternatively curing by ponding is recommended for a minimum 7 days.

**Limitations :** For concrete with optimized water cement ratios, K2 UNIFLOOR shall not be sprinkle over 3-4kg/m<sup>2</sup>.

**COVERAGE :** For dry shake - sprinkle ratio : – low traffic - 3.5 kg/m<sup>2</sup>, medium traffic – 5 kg/m<sup>2</sup>, Heavy duty traffic – 7kg/m<sup>2</sup>

**PACKING :** K2 UNIFLOOR (M) is available in 25kg bag.

**SHELF LIFE AND STORAGE :** K2 UNIFLOOR (M) will have a shelf life of 12 months when kept in dry conditions at a temperature between 5°C to 45°C.



# MODIFIED MORTAR

## K2 BLOCKFIX | THIN LAYER BLOCK FIXING ADHESIVE

**DESCRIPTION :** K2 BLOCKFIX is a versatile thin jointing material for laying AAC blocks, fly ash bricks, concrete blocks etc. the product is specially designed to provide higher bonding as a result of higher tensile adhesion strength and waterproofing properties. K2 BLOCKFIX is a fast, clean, ready to use which requires only water. because of thin bed block fixing one can get extra strong bonding of the blocks and helps in achieving good plumb.

### AREA OF APPLICATION :

- \* Laying and jointing of fly ash bricks, cement blocks, hollow blocks, AAC blocks etc.
- \* Jointing of pre-stressed concrete slabs, panels.
- \* Jointing of cement-concrete floor tiles.
- \* Jointing of cement window and door frames.

### BENEFITS :

- \* Pre-mixed and ready-to-use. only water is to be mixed at site.
- \* Thin jointing material with very high adhesion strength.
- \* Thin layer application results in structure being compact.
- \* No water curing is required after application.
- \* Excellent waterproofing properties.
- \* Ready for subsequent application like plastering just after 24 hours of application.
- \* Eco-friendly product.

### TECHNICAL INFORMATION :

- |   |   |
|---|---|
| * Appearance :                          | Grey color powder                           |
| * Pot life :                            | Approximately 2 hrs                         |
| * Tensile adhesion strength @ 28 days : | 0.8 N/mm <sup>2</sup>                       |
| * Water demand :                        | 25-30 %                                     |
| * Self curing :                         | Yes, no additional water curing is required |

**APPLICATION INSTRUCTION :** Surface preparation: the surface of masonry units should be slightly wet prior to application of jointing. the masonry units should be clean, with no loose particles or dust for better bonding. the surface must be structurally sound. efflorescence & any other contaminant which could impair the natural bond should be removed. surface defects such as cracks, holes or voids should be repaired prior to application.

**Mixing :** It is very important that K2 BLOCKFIX is mixed with water thoroughly before use. mixing ratio- depending on the thickness of the product applied, add approximately mix 30 % of the clean potable water and 70 % of powder and mix water is added in stages to get a smooth, uniform, workable mix. allow sufficient time for initial mixing. ensure that no powder is left unmixed at the bottom of vessel. the K2 BLOCKFIX is now ready for application.

**Method of application :** Apply a thin uniform layer of K2 BLOCKFIX 3 to 4 mm thick on the clean and leveled surface of masonry units using proper trowel. please the next course of masonry units on the evenly laid K2 BLOCKFIX bed in proper line & level. each masonry unit shall be properly bedded and set in position by gently pressing with the handle of a trowel. after placing the first unit, apply the K2 BLOCKFIX of same thickness on both the side of unit, keeping continuous check for the line & level. inside face of the masonry unit shall be buttered with mortar before the next unit is laid and presses against it especially in case of bricks. clean the excess material, if any immediately. continue the procedure for the entire masonry work.

**Precautions :** Though K2 BLOCKFIX contains no toxic materials, still care should be taken to avoid dust inhalation while mixing and handling in case of contact with eyes or face, wash with plenty of clean water.

**Coverage :** Under normal condition the coverage of K2 BLOCKFIX is approximately 75-80 Sq.ft. with average thickness of 3 mm for a bag of 30 kg .the coverage area however will depend upon the quality & evenness of the substrate, thickness of joints and size of masonry units.

**PACKING :** K2 BLOCKFIX is available in 30 kg bag.

**SHELF LIFE & STORAGE :** K2 BLOCKFIX should be stored in a dry place for better results.K2 BLOCKFIX should be used within 12 month from date of manufacturing.



# CONCRETE ADMIXTURE

## K2 PLAST CURE | ACCELERATING ADMIXTURE FOR UNREINFORCED CONCRETE / MORTAR

**DESCRIPTION :** Accelerating compound used for unreinforced concrete and mortar to fast strength development early removal of frame work and to help resist the effects of freeze up. ideal for cool temperature

### BENEFITS :

- \* Low cost and highly workable for low temperature condition.
- \* Control water/ cement ratio and provides extra protection from frost and accelerating hydration of cement.
- \* Gives early strength that enables earlier release of precast concrete.
- \* Allows non-stop/unremitting/constant placing of concrete at low temperatures.
- \* No Segregation in concrete, thus giving high density and high compressive strength.
- \* Harden the concrete or mortar faster than normal condition.

**STANDARD :** K2 PLAST CURE complies with BS 5075 part 1 and ASTM C 494 type C.

### PROPERTIES :

- \* **Specific gravity :** 1.31 – 1.32 at 30°C
- \* **Appearance :** Water color liquid
- \* **Chloride content :** 20% approx
- \* **Air entrainment :** General less than 1% additional air
- \* **Compatibility with other admixtures :** K2 PLAST CURE is compatible with other K2 admixtures but should be admixed separately to the concrete mix design. air content may reduce when some other air entraining agent is used at accelerating admixture for unreinforced concrete / mortar the concurrence with K2 PLAST CURE. consult technical person in case other chemicals are to be used.
- \* **With cement :** K2 PLAST CURE is compatible with all types of cement except high alumina or sulphate resistant cements.
- \* **Workability :** K2 PLAST CURE used without reduction of the water content in concrete increase the slump and simultaneously improves concrete flow without decrease the compressive strength of the concrete.

### APPLICATION INSTRUCTIONS :

- \* **Dosage :** Temperature below 4°C to -2°C.
- \* **Concrete & mortar :** 1.4 kg/50 kg cement.
- \* **Overdosing :** Will increase acceleration : increase work ability and : there may be slight increase of air entrain

**Mixing :** The required quantity of K2 PLAST CURE should be added to the mix directly into the mixture or at the time of mixing water. appropriate dosage 200 ml to 500 ml per 50 kg cement.

**PACKING :** K2 PLAST CURE is available in 30 kg and 250kg pack.

**CURING :** Normal caring is required.

**SHELF LIFE AND STORAGE :** Product self life is 24 months from the date of manufacturing, provided the storage temperature 2°C to 40°C.



## K2 BLOCK MIX PC | HIGH EARLY STRENGTH SUPER PLASTICIZING ADMIXTURE FOR CONCRETE BLOCKS

**DESCRIPTION :** K2 BLOCK MIX PC ready to use admixture is a new generation plasticizer based on innovative polycarboxylate technology and specially formulated for cost efficient production of manufacturing unreinforced plain concrete block products.

### AREA OF APPLICATION :

- \* Paver block.
- \* Solid concrete block.
- \* Hollow concrete block.
- \* Concrete roof tile.
- \* Light weight concrete blocks(CLC).

### BENEFITS :

- \* Ready-to-use.
- \* Increase plasticity.
- \* Increase flexural strength.
- \* Increase compressive strength.
- \* Improves colors and texture consistency.
- \* Sharper corner & edges.
- \* Reduced cracking & crazing.
- \* Reduces compaction resistance & machine wear.
- \* Gives early compressive strength that enables faster rate of concrete product fabrication.
- \* Minimizes the undulation of the surface.
- \* Eco- friendly product.

### TECHNICAL SPECIFICATION :

- \* **Appearance :** Amber colored liquid
- \* **Specific gravity :** 1.260 + 0.02
- \* **Solid content :** 44.0%
- \* **Solubility :** Water soluble

### APPLICATION INSTRUCTION :

- \* **Dosage :** Appropriate dosage 200 ml to 400 ml per 50 kg cement.
- \* **Compatibility with cement :** K2 BLOCK MIX PC can be used with all type of opc cement. composite cement (PSC & PPC). silica fume, pulverized fuel ash and ground granulated blast furnace slag
- \* **Mixing :** The required quantity of K2 BLOCK MIX PC should be mix some amount of water and add it in concrete.
- \* **Curing :** Normal curing is required.

**PACKING :** K2 BLOCK MIX PC is available in 30 kg and 250 kg pack.

**SHELF LIFE AND STORAGE :** Shelf life is 12 months from the date of manufacturing and it should be stored in cool and dry place.



# K2 SUPLAST AC

CHLORIDE FREE ACCELERATING PLASTICIZER FOR CONCRETE

**DESCRIPTION :** K2 BLOCK MIX PC is accelerating admixture for concrete, which accelerates the stiffening and early strength gain of portland cement concrete and mortar. the application areas are structural concrete, concrete blocks, concrete pipes, precast items and also suitable for cold weather masonry work.

**BENEFITS :**

- \* It is a chloride free accelerator and does not affect pre- stressed and pre –cast concrete.
- \* It can be used in concreting at any temperature between 5°C to 45°C.
- \* It is specially designed to control water cement ratio and reduce set rate at early stage of concrete as well gain ultimate strengths.
- \* This product can go with both PCC and RCC.
- \* It gives high early strength.

**STANDARD :** K2 BLOCK MIX PC complies with IS 9103-1999, BS 5075- part-1 and ASTM- C 494 type“C” as accelerating admixture.

**TECHNICAL PROPERTIES :**

- \* Color : Straw color liquid
- \* Specific gravity at 30°C : 1.26 to 1.28
- \* Air entrainment : Approximately 1% additional over control
- \* Chloride content : Nil, according to IS 456-1978. BS-5075
- \* BASE : Amines & formats

**TRIAL RESULT :**

- \* Mix design : M-20
- \* Mix constituents :
- \* Cement : OPC 53 grades
- \* Sand : 42 % zone II
- \* Aggregates : 58 % 20 mm. & 10 mm

Trail No.	Cement content kg/m <sup>2</sup>	Dosage ltr./50 kg. cement	Water / cement ratio	Setting time		Slump mm	Compressive strength N/mm <sup>2</sup>		
				Initial	Final		3 Days	7 Days	28 Days
1 (Without chemical)	300	NIL	0.60	3.00 hrs.	4.30 hrs.	90 mm	17	29	43
2 (With chemical)	300	1.25	0.55	2.00 hrs.	3.30 hrs.	100 mm	24	34	46

**APPLICATION INSTRUCTIONS :** K2 BLOCK MIX PC is compatible with all kinds of OPC, composite cement (PSC and PPC), silica fume, metakaolin, rice husk ash (RHA), pulverized fuel ash (PFA) and ground granulated blast furnace slag (GGBFS). but it is recommended to add proper dose at the time of mixing with cement for better result. after addition of K2 BLOCK MIX PC the concrete should be mix at least for 2 minutes.

**DOSAGE :** The normal recommended dosage is 500 ml. to 1.2 liters. per 50 kg. of cement. the ultimate dosage has to be determined by site trials.

**PACKING :** K2 BLOCK MIX PC is available in 30 kg & 250 kg pack.

**STORAGE & SHELF LIFE :** To be stored away from heat and frost. best before 24 months from the date of manufacturing.



# K2 SUPLAST SNF

HIGH RANGE WATER REDUCING CUM RETARDING PLASTICIZER

**DESCRIPTION :** High range & quality, concrete super plasticizer based on modified sulphonated naphthalene formaldehyde. K2 SUPLAST SNF is a concrete super plasticizer, which when added to concrete disperses the cement particles and enhances the work ability by multi folds and also facilitates high retardation.

**BENEFITS :**

- \* Improves work ability.
- \* Increases strength.
- \* Improves quality.
- \* Good slump retention.
- \* Chloride free.

**TECHNICAL DATA :**

- \* Physical form : Brown liquid
- \* Type : Naphthalene formaldehyde sulfonate.
- \* Chloride content : Nil as per IS 456
- \* Air entrainment : 1% to 2% additional air entrained over reference concrete
- \* Specific gravity : 1.150 ± 0.020 kg./liter.
- \* Ph value : 7.5 ± 1.0

**STANDARD :** K2 SUPLAST SNF complies with IS 9103-1999

**APPLICATION INSTRUCTIONS :** Dosage and usage: the normal recommended dosage is 0.4% to 1.4% by weight of cement. the optimum dosage and compatibility of the admixture should be confirmed by proper trails in-situ. over dosage will lead to retardation as the formulation is specifically designed to give extra retardation. the initial strengths of the concrete will be less i.e. 1st day. strengths on 3rd day, 7th day and 28th day will not be affected. K2 SUPLAST SNF has to be added on to wet concrete mix for best results. K2 SUPLAST SNF has slump retaining ability and hence can be transported to longer distance due to which cold joints and placing problem can be avoided.

**PACKING :** K2 SUPLAST SNF is available in 230 kg pack.

**SHELF LIFE AND STORAGE :** Shelf life is 24 month from the date of manufacturing. store the material in cool and dry place. keep away from direct sunlight and heat.

**TRIAL DETAILS :**

Sr.No.	Materials description	Design mix recipe	qty. kgs.	Remarks
1	Coarse aggregate 20 mm	16.30	16.30	
2	Coarse aggregate 10 mm	16.30	16.30	
3	River sand	7.11	7.11	
4	Crushed sand	7.11	7.11	
5	Cement (birla super 53 G)	8.16	9.60	
6	Fly ash	1.44	0.00	15 % fly
7	Water	5.70	5.70	
8	Admixture (K2 SUPLAST SNF)	0.05	0.07	0.6 % & 0.71 % admx.
	Total concrete mix quantity	62.17	62.13	
B	Preliminary test values			
	Intial slump retention = 80 mm	150 mm	130 mm	
	Slump after one hour	110 mm	100 mm	





## K2 SUPLAST 530 | HIGH RANGE WATER REDUCING CUM RETARDING CONCRETE SUPER PLASTICIZER

**DESCRIPTION :** K2 SUPLAST 530 has been primarily developed for applications in the premixed and precast concrete industries where the highest durability and performance is required. K2 SUPLAST 530 is a particularly strong super plasticiser allowing production of consistent concrete properties around the required dosage. K2 SUPLAST 530 differentiated from conventional superplasticizer in that it is based on a poly carboxylic ether polymer with long lateral chains. this greatly improves cement dispersion. at the start of the mixing process, an electrostatic dispersion occurs and the cement particles' capacity to separate and dispersion increases. this mechanism provides flowable concrete with greatly reduced water demand.

**AREA OF APPLICATION :** K2 SUPLAST 530 can be used with all type of portland cement. to produce flowable concrete, high strength, water reduction, durable and very cohesive mix to maintained its cohesiveness up to much longer time. to increase workability at lower dosage.

### BENEFITS :

- \* Flowable concrete with the lowest water/cement ratio without segregation or bleeding.
- \* Improves the workability and retains slump for longer time even under severe climate conditions.
- \* Improves concrete surface finish and texture.
- \* Less vibration required even in case of congested steel reinforcement.
- \* Improves durability of concrete.
- \* Impermeability of concrete.
- \* Improves the cohesion thus suitable for pumping of concrete.
- \* Increase high and 28 days compressive strength, if advantage of water reduction taken.
- \* Chloride free.
- \* It provides easier and quicker placing & optimum compaction.
- \* Ideal for mass concrete.

### TECHNICAL INFORMATION :

- \* **Appearance :** Brown color liquid
- \* **PH at 25°C :** 6 to 8.5
- \* **Chloride content :** <0.2 % as per IS 9103

**STANDARD :** K2 SUPLAST 530 complies with IS 9103-1999 and conforms to ASTM C 494 type d and type g.

### APPLICATION INSTRUCTION :

**Dosage :** The normal recommended dosage is 0.4 % to 1.6 % by weight of cement. the optimum dosage and compatibility of the admixture should be confirmed by proper trails in situ.

**PACKING :** K2 SUPLAST 530 is available in 230 kg pack.

**SHELF LIFE AND STORAGE :** Shelf life is 12 month from the date of manufacturing. store the material in cool and dry place. keep away from direct sunlight and heat.



## K2 SELFPLAST PCE | HIGH POLYCARBOXYLATE ETHER BASED HIGH STRENGTH SUPER PLASTICIZER SELF COMPACTING CONCRETE

**DESCRIPTION :** K2 SELFPLAST PCE is high performance, high strength and durable super plasticizer for concrete based on polycarboxylate ether polymer. K2 SELFPLAST PCE has better molecular weight distribution and degree of polymerization of the carboxylate monomer. the main polymer chain has carboxyl groups for the absorption on the surface of cement particles and long polyethylene oxide graft chains with slumps loss controlling agent (SLCA) that keep the cement particles physically away from each other. this results in superior work ability of concrete mixtures coupled with the ability to maintain the fluidity and slump retention for at least 4 hours after mixing at higher than ambient temperatures (35 °C or more). the SLCA enhance slump retention apart form its role of providing fluidity to the concrete mixture. K2 SELFPLAST PCE comprises of particles in the size range of 0.25 to 0.35 micrometers and is synthesized through nano-scale polymerization. it is a high range super plasticizer (water reduction up to 40% in control concrete) with superior cement dispersion ability to provide extremely high slump values, even to concrete mixtures made with water-to-cement ratio of less then 0.30.

### BENEFITS AND ADVANTAGES :

- \* Highly dosage efficient - a much smaller dosage as compared to conventional super plasticizers is only sufficient.
- \* Imparts high flow ability to the mixture so as to fill the form work under its own weight (self compacting ability) without any voids or segregation of aggregates. this self compacting concrete (SCC) maintains fluidity for longer periods (about 4 hours 35° C because of the presense of SLCA). SLCA prevents slump losses by "parachute effect" of slow absorption on ettringite crystals formed at the beginning of cement hydration.
- \* K2 SELFPLAST PCE can be used as pump ability enhancer along with plasticizing effect which allows high range water reduction leading to phenomenal increase in compressive strength, impermeability and durability.
- \* Especially recommended for RMC production and in batching plants because of its very high slump retention characteristic imparted by SLCA. for long distance transportation of concretes from plant to site, K2 SELFPLAST PCE concretes can be pumpability with minimal set retardation. ready mixed concretes of moderate to very high strengths can be produced using this super plasticizer.
- \* Imparts high self compaction or self leveling, reduces shrinkage and creep, increases flexural strength, reduces carbonation, improves adhesion to re-inforcing and pre-stressing steel and develops early strength. it helps in producing cohesive, smooth and fair faced concrete.

### CHEMICAL PROPERTIES :

- \* **Appearance :** Amber colored liquid
- \* **Specific gravity :** 1.10 ± 0.20
- \* **PH value :** 7 ± 1
- \* **Chloride content :** Nil (BS:5075)
- \* **Solubility :** Water soluble

**STANDARD :** K2 SELFPLAST PCE conforms to ASTM c 494 type b, type d and type g and complies with IS:9103-1999.

### APPLICATION INSTRUCTIONS :

- \* **Dosage :** 400 ml - 1200 ml per 100 kg cement (0.4% to 1.2% v/w).
- \* **Compatibility with cement :** K2 SELFPLAST PCE can be used with all types of OPC, composite cement (PSC and PPC), silica fume, metakaolin, rice husk ash (RHA), pulverized fuel ash (PFA) and ground granulated blast furnace slag (GGBFS).

**PACKING :** K2 SELFPLAST PCE is available in 30 kg, 220 kg pack.

**SHELF LIFE AND STORAGE :** To be stored away from heat and frost. best before 12 months from the date of manufacture.



## K2 KURE CE | WAX BASED WHITE PIGMENTED CONCRETE CURING COMPOUND EMULSION

**DESCRIPTION :** K2 KURE CE is a white, low viscosity wax emulsion incorporating alkali reactive emulsion breaking system ensuring that the emulsion breaks down to form a non penetrating continuous film immediately upon contact with a cementitious surface preventing excessive water evaporation and in turn permits more efficient cement hydration. this reduces shrinkage increasing durability. once formed, the membrane remains on the concrete surface until broken down and eroded by natural weathering. further treatment, if required, it may be necessary to remove the membrane remaining after curing by wire brushing or other mechanical means. K2 KURE CE is also ideal where the concrete surface of a floor slab is to be left as 'finished'.

\* For applying on freshly cast concrete, newly exposed concrete surfaces, forming a temporary membrane to retain sufficient moisture for effective curing to take place. used for applications for large areas of concrete such as pavements, runways and bridge decks, vertical or sloping surfaces as on towers, chimneys, canal linings, columns and beams, where water curing is difficult, inaccessible or unreliable.

### ADVANTAGES :

- \* **One time application :** Provides moisture barrier for whole of the curing period.
- \* Eliminates totally other curing methods like additional water, hessian or sand.
- \* Very dependable without risk of erratic or poor curing and facilitates efficient.
- \* Mitigates risk of drying, shrinkage, cracks and dusty surfaces.
- \* Non-toxic and noninflammable and easy to brush or spray.

**STANDARDS COMPLIANCE :** K2 KURE CE complies with ASTM C309-90 standard

**PROPERTIES :** Color bulk liquid – white minimum application temperature - 10°C.

### APPLICATION INSTRUCTIONS :

**Application exposed :**

- \* **concrete slabs :** K2 KURE CE should be applied on to the newly placed concrete slab as soon as possible after it is free from visible surface water, ideally within 1 to 2 hours after placing.

**Shuttered and precast :**

- \* **concrete :** K2 KURE CE should be evenly applied to all surfaces as soon as frame work has been removed or the precast member is demoulded.

**COVERAGE :** Approximately 4-5 m<sup>2</sup>/liter / coat.

**PACKING :** K2 KURE CE is available in 27 liter and 200 liter pack.

**SHELF LIFE AND STORAGE :** K2 KURE CE has a shelf life of 12 months when stored at below 15°C. containers should be airtight to prevent surface evaporation. freezing or prolonged exposure to direct heat or sunlight must be avoided.



## K2 CENTRAL EMRA | CONCENTRATED AND EMULSIFIED CHEMICAL MOULD RELEASE AGENT

### DESCRIPTION :

- \* Stain free and is free from cleaning shabby oil stains if plastering is not required.
- \* Produces a high quality and neat faced finish concrete and minimizes cleaning of from form faces between pours.
- \* Effective and versatile on all types of moulds. can be used on wooden or metal surfaces.
- \* Highly concentrated and only requires water for dilution.
- \* Easy to store, handle and transport.
- \* Ideal mould release agent in ceramic industries, pavement block moulds, brick moulds and construction form work.

### PROPERTIES :

- \* **Appearance :** Brown clear liquid turns white water
- \* **Dilution :** 1 part K2 CENTRAL EMRA : 4 parts potable water (V/V)
- \* **Specific gravity :** Generally 0.835 to 0.845
- \* **Chemical reaction :** Reacts with the alkali in concrete and forms a thin water repellent skin on the surface for easy demoulding
- \* **Mixing :** Dilute K2 CENTRAL EMRA concentrate in the proportion of 1:4 with water, using a clean container and stirring thoroughly until evenly mixed. if the emulsion is not used the same day, it should be stirred again before use and may require vigorous stirring after 5 days
- \* **New timber or metal moulds :** Normally no preparation is require
- \* **Used timber or metal moulds :** Must be thoroughly cleaned and free from old concrete, dirt, cement laitance, old mould oil and other contaminations, using a strong detergent or degreaser

### APPLICATION INSTRUCTIONS :

- \* **Preparation :** Apply the 1:4 water diluted K2 CENTRAL EMRA to the face of the form work by spray, brush or cloth. only one thin coat should be applied. for absorbent new timber two coats may be necessary for the first application only. allow to dry. if the form work is not used for several days, a further coat may be applied. excess coating could lead to surface dusting of the concrete. fine sprayer and good quality brush present best application results. for cloth application, soak in the release agent and then squeeze out well before applying for thin film formation. K2 CENTRAL EMRA should not, generally, be used where demoulding is necessary in 24 hours.
- \* **Drying time :** Ensure thorough drying of K2 CENTRAL EMRA before placing concrete. in high humid conditions drying times will be much longer. protect the K2 CENTRAL EMRA coating from rain.
- \* **De-moulding :** De-moulding can be carried out in the normal way. after de-moulding form work surfaces must be thoroughly cleaned. apply fresh coats of K2 CENTRAL EMRA whenever the cleaned form work materials are used.

### COVERAGE :

- \* For steel surface: 140-160m<sup>2</sup>/5 liter.
- \* For wooden surface: 80-140m<sup>2</sup>/5 liter.  
(After solution with 4 liter water in 1 liter K2 CENTRAL EMRA.)

**PACKING :** K2 CENTRAL EMRA is available in 27 liter and 200 liter pack.

**SHELF LIFE AND STORAGE :** K2 CENTRAL EMRA has a shelf life of 12 month in normal temperature conditions. diluted K2 CENTRAL EMRA will be stable for nearly 5 days and must be re-stirred before use.



## K2 CENTRAL DA | MINERAL OIL BASED SHUTTER RELEASE AGENT

**DESCRIPTION :** Ready to use low viscous mineral oil to provide quick, clean and easy stripping of moulds, frame work and ensure high quality fair-faced and stain-free concrete.

### BENEFITS :

- \* Ensures high quality, stainfree, fair-faced concrete surface.
- \* Clean, fast and easy stripping of frame work.
- \* Can be used on all types of frame work.
- \* Minimises cleaning of shutters before re-use.
- \* Extended life of frame work.
- \* Inhibits corrosion of steel forms.
- \* High coverage, can be applied as a very thin film.
- \* Excellent results on steel and sealed timber forms.

### TECHNICAL SPECIFICATION :

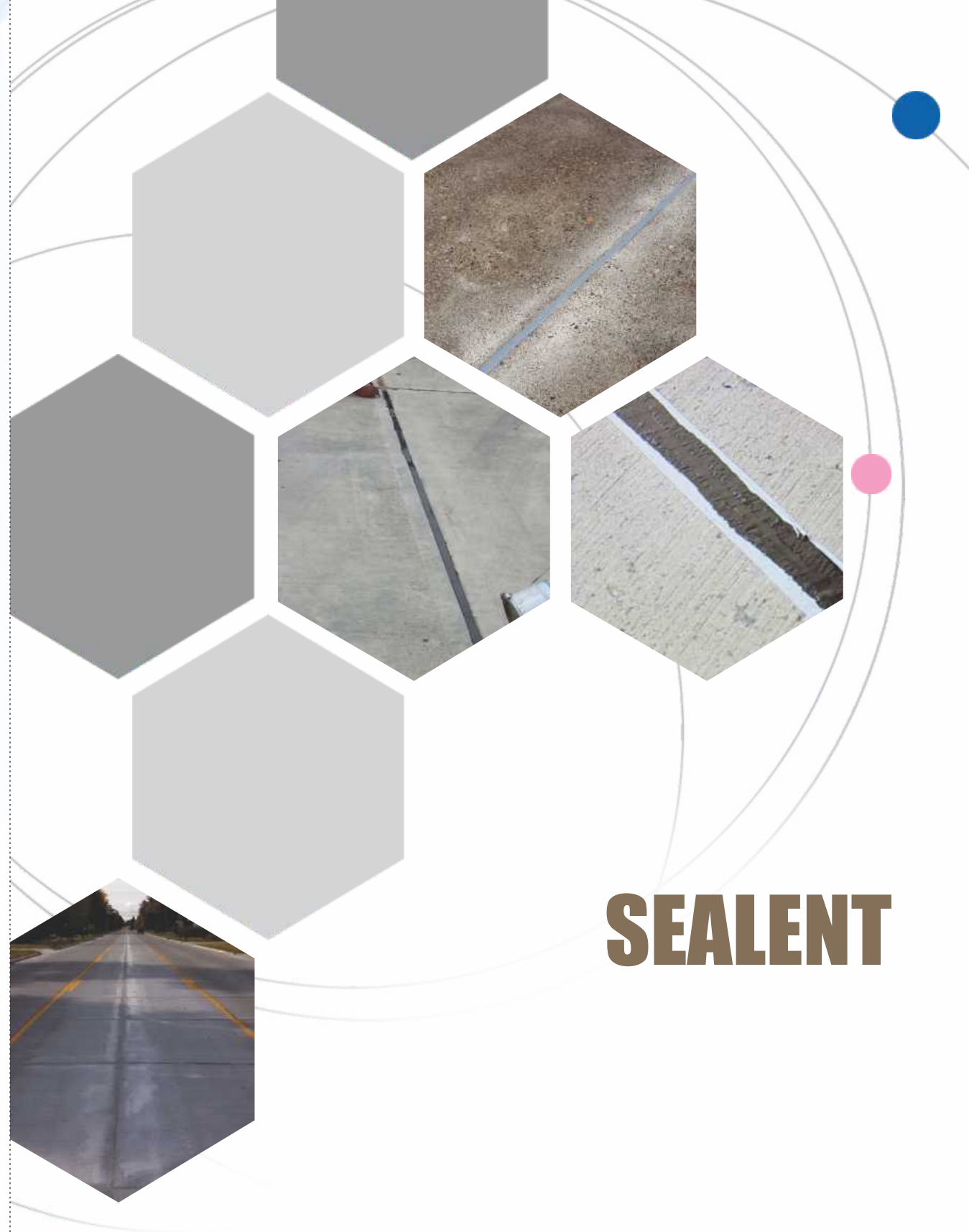
- \* Form : Liquid
- \* Color : Pale amber
- \* Special gravity : 0.83

### APPLICATION METHOD :

- \* **Preparation :** K2 CENTRAL DA is a ready to use material and require no mixing, stir the contents of the container thoroughly before use. surface should be cleaned and for used moulds, all traces of cement must be removed together with any surface deposit of previous oils.
- \* **Coating :** Apply one coat only by brush, sponge, roller or spray on the cleaned surface. nonabsorbent surfaces requires single coat. new unsealed wood and timber may require subsequent coat if the previously applied coat is absorbed.
- \* **Coverage :** A coverage between 40 to 60 m<sup>2</sup> per liter is possible depending upon the porosity and texture of mould surface.

**PACKING :** K2 CENTRAL DA is available in 27 and 200 liters pack.

**SHELF LIFE AND STORAGE :** Shelf life is 12 months from the date of manufacturing and it should be stored in cool and dry place.



# SEALENT

# K2 POLYSEAL 21G

GUN GRADE TWO PART  
POLYSULPHIDE SEALANT

**DESCRIPTION :** K2 POLYSEAL 21G is a two-part joint gun grade sealant based on liquid polysulphide polymer. it is containing a base component (part A) and accelerator (part- B) in the correct proportion which when mixed together cure to form a fairly stiff rubber-like material. when cured, the sealant exhibits excellent adhesion to most surfaces including concrete, glass, aluminum and stainless steel. it is to be used for the highest performance in sealing expansion joints where large movements is anticipated in concrete construction and for joints between diverse construction materials. K2 POLYSEAL 21G has superior joint movement accommodation with strong adhesion to most building materials.

**AREA OF APPLICATION :** K2 POLYSEAL 21G is used either in internal and external expansion or contraction joints and could be of vertical, slanting or horizontal nature.

#### BENEFITS :

- \* Excellent weathering characteristics with resistance to rain, snow, heat & ultraviolet light.
- \* Quick curing with low shrinkage.
- \* Accommodates continuous and pronounced cyclic movement.
- \* Excellent adhesion to most common substrates.
- \* High resistance to ageing influences, physical damage and climatic extremes.
- \* Resistance to petrol, diesel, jet fuel and most other common solvents & also unaffected by mild acids and alkalis.

#### TECHNICAL INFORMATION :

- \* Nature : Two components (Base and Accelerator)
- \* Appearance: Base-(Part-A) : thick, white paste
- \* Appearance : Thick, dark brown paste  
Accelerator (Part-B)
- \* Mixing ratio : base: Accelerator- 92:8 part (weight by weight)
- \* Mixing compound : Grey
- \* Application temperature : Density of the Mix  
10°C to 50°C  
Pot life (application time)
- \* Setting time : 24 hours
- \* Complete curing time : 7 days @ 30°C

**STANDARD COMPLIES :** K2 POLYSEAL 21G is a gun grade two part polysulphide sealant conforming to BS 4254 : 1967 & BS 5212 : 1990, DIW 18540, ASTM C-920-87.

**JOINT SIZE :** K2 POLYSEAL 21G may be applied to joints between 5 to 50mm wide. joint for subjected to cyclic movements should be designed for an optimum width/depth ratio of 2:1. minimum joint depths are: 5 mm for metals, glass and other non-porous surface. 10 mm for all porous surfaces like brick and concrete. 20 mm for trafficked joints and those subject to hydraulic pressures.

**APPLICATION INSTRUCTION :** Prior to the application of the K2 POLYSEAL 21G, all joint surfaces should be thoroughly cleaned and dried and primed with 'K2 POLYSEAL PRIMER'. loose particles, dirt, dust, protective lacquer, oil and grease should be removed by vigorous brushing with a wire brush and by means of suitable cleaners e.g. KEROLIN. after the primer is applied, it has to be relatively dried before sealant is applied. deep joints should be back filled with a non-retting backup material to which the sealant does not adhere e.g. closed cell polyurethane foam, which should be tampered into the joint to the required depth.



**Mixing :** K2 POLYSEAL 21G sealant is supplied in a pack with base (part-A) and accelerator (curing agent-part-B). empty part-B in to part-A completely and mix. in order to mix both the compounds thoroughly, it is preferable to use a slow speed electric mixer with suitable blades or paddles with a speed less than 300 RPM. ensure thorough mixing till a uniform color is obtained. failure of the sealant will often occur if it is not completely and thoroughly mixed.

**Tooling & finishing :** To obtain a smooth surface, the sealant has to be tooled by drawing a flat tool, like a stainless steel spatula, over its surface. after sealing, the tools and equipments must be cleaned with kerosene.

#### PRECAUTIONS :

- \* The width should not exceed more than 50mm.
- \* The product should not be exposed to high temperatures. avoid application below 100C temperatures.
- \* Traces of bitumen, loose or dust particles should not be there while application.
- \* Adhesion of the product must only on two opposites faces of the substrate
- \* **PACKING :** K2 POLYSEAL 21G is available in 4 kg pack.

**SHELF LIFE AND STORAGE :** K2 POLYSEAL 21G will have a shelf life of 12 months in unopened containers when kept in dry conditions at a temperature between 5°C to 45°C. storage at higher temperature or high humidity may reduce shelf life.

**ESTIMATION OF QUANTITY :** To estimate quantities of K2 POLYSEAL 21G required, the formula given below can be used to calculate the number of tins needed. to calculate the weight (in kg.) of sealant required for a joint of particular length (in meter), the following formula can be used : weight in kg = (1.6 X W X D X L)/1000 where W & D are in mm and L is in meter, example : (1) W (width of joint) = 10 mm (2) D (depth of joint) = 10 mm (3) L (length of joint) = 12.5 meter; weight in kg = (1.6 X 10 X 10 X 12.5) / 1000 = 2.00 kg of sealant, estimates for K2 POLYSEAL primer are arrived at as below : 1 liter of K2 POLYSEAL primer would cover 6 to 7 m<sup>2</sup> of joint area or about 1 liter of K2 POLYSEAL primer would be required for 30 kg of K2 POLYSEAL 21G sealant.

#### NOTE :

K2 POLYSEAL 22P (pourable grade two part polysulphide sealant) is also available. more details refer TDS.



# OTHERS

## K2 METAPRIME WT | WATER BASE ANTICORROSIVE PRIMER FOR METAL

**PRODUCT DESCRIPTION :** K2 METAPRIME WT is a water base, most economical, primer coating designed to provide weather resistance to metal. it ensures thin, hard and uniform coating to the metal surface. this provides fairly good corrosion resistance to metal. the product contains anticorrosive pigments and additives.

**AREA OF APPLICATION :** K2 METAPRIME WT can be used in structural steel reinforcement, embedded structural steel in concrete, steel bar furniture's industries, cast iron and ferrous and metal substrates.

### BENEFITS :

- \* Economical and cost effective.
- \* Good corrosion resistance.
- \* Good weather resistance.
- \* Ease of application- brush applied or spray.
- \* Protects the rebar and metal from sulphates and chlorides.
- \* Very good adhesion to metal surface.
- \* Environment friendly, low VOC.

### TECHNICAL SPECIFICATION:

- \* **Appearance :** Red oxide colored liquid
- \* **Finish :** Semi matt
- \* **Surface dry :** 1 – 2 hours
- \* **Hard dry :** 24 hours
- \* **Full cure :** 7 days
- \* **Over coating time :** Minimum 10 hours
- \* **DRY film thickness :** 18 to 20 microns (single coat)

### APPLICATION INSTRUCTION :

**Surface preparation :** Prepare the surface thoroughly by cleaning, washing and removing dust, dirt, oil, grease and loose particles. the structural steel reinforcement should be clean by wire brush, sand blasting or acid cleaning.

**APPLICATION :** Stir well prior to use. K2 METAPRIME WT should be applied by brush or spray on substrate. allow the coating to dry for minimum 10 hours before applying second coat. the product does not require dilution. however in case it is required 5 to 10 % water can be used for dilution.

**COVERAGE :** 15 to 16 Square meters / liter/coat for 18 to 20 microns dry film thickness (coverage may vary depending upon the surface)

**PACKING :** K2 METAPRIME WT is available in 1 liter, 4 liter & 20 liter pack.

**SHELF LIFE AND STORAGE :** Shelf life is 12 month from the date of manufacturing. store the material in cool and dry place. keep away from direct sunlight and heat.



# K2 INSTA PLUG LD

QUICK SETTING WATERPROOFING & PLUGGING COMPOUND

**PRODUCT DESCRIPTION :** K2 INSTA PLUG LD is an extra quick setting waterproofing/ plugging compound which stops running water instantly. K2 INSTA PLUG LD to be mixed with cement and sets in 2 to 4 minutes. K2 INSTA PLUG LD is an excellent time tested liquid admixture for emergency/immediate repair work due to very fast setting property.

**AREA OF APPLICATION :** K2 INSTA PLUG LD will stop running water and seepage through concrete and masonry walls, dams, wall and floor junctions. It can be used as a grout around pipes. a plugging compound for basements, pipe joints, retaining walls, tunnels and sewage works and quick fixing of nozzle.

### BENEFITS :

- \* Excellent quality plugging compound.
- \* Excellent adhesion.
- \* Stops running water instantly.
- \* High early strength.
- \* Easy to use.
- \* Emergency repair work.
- \* Only cement to be mix.

### TECHNICAL INFORMATION :

Properties	Specification
Appearance :	Red colored liquid
Specific gravity :	1.200 g/cc
Initial setting time :	2-4 minutes

### APPLICATION INSTRUCTION :

#### Surface preparation:

- \* Clean the surface and remove any dust, contaminated material, oil, grease, corrosion deposits and algae. the prepared area should be blown clean with oil free compressed air.
- \* Cut back the opening of leaking hole to form concave shape tapering to a narrow mouth at the entrance.

**APPLICATION :** K2 INSTA PLUG LD should be mixed with cement and should be applied within 2 minutes then hold and pressure should be applied for 4 minutes.

**DOSAGE :** 30 to 40% by weight of cement. it cannot be diluted with water.

**PACKAGING :** K2 INSTA PLUG LD is available in 1 liter and 5 liter pack.

**SHELF LIFE AND STORAGE :** Shelf life is 24 months from the date of manufacturing. the material should be stored between 5°C to 40°C and avoid exposure to sunlight.



# K2 JAPOXY IG

SOLVENT FREE LOW VISCOSITY INJECTION EPOXY GROUT

**DESCRIPTION :** K2 JAPOXY IG is a two part solvent free low viscosity injection epoxy grout. it is used to seal & inject cracks in concrete floors, walls & structures because it provides deep penetration, shrink free solid mass, strong bonding inside the cracks and excellent resistance to honey combing, water, salt & chemicals ingress thereby obviating freeze- thaw damage and rebar corrosion.

### AREA OF APPLICATION :

- \* K2 JAPOXY IG can be used for.
- \* Permanent bonding solution for concrete cracks.
- \* Repairs of crack concrete areas in floors, wall, tank & sea walls.
- \* Injection in to crack & honey combing of concrete, brickwork and masonry.
- \* Base plate grouting with narrow gaps of < 10mm.

### BENEFIT :

- \* Ultra high strength.
- \* Seals & bonds strongly with cracks of concrete, floors & walls and provides smooth working.
- \* Low viscosity helps in deep penetration into the cracks. thus seals the cracks permanently.
- \* Resistance to oil, grease, water penetration, abrasion, weathering and chemical.
- \* Easily to apply.
- \* Low viscosity, strong bonding, higher strength development than parent concrete, shrink free nature & waterproofing characteristics, makes it suitable for repairs of heavy concrete structures like bridgers, dams, building etc.
- \* Resistance to aggressive chemicals, corrosion, abrasion & dust formation.
- \* Excellent adhesion to cement substrates even under salt water & moisture.

### TECHNICAL INFORMATION :

Properties	Results
Temperature during application :	3°C TO 45°C
Pot life at 30°C :	40 – 45 minutes
Initial setting time :	6 hours
Compressive strengths –7 days :	750 kg/ cm2
Adhesion to concrete :	44kg/cm2 ( concrete failure)
Tensile strength – 7 days :	100 kg/ cm2
Water permeability :	Nil
Mix density :	1060 kg/ cm3

### APPLICATION INSTRUCTION :

#### Surface preparation :

- \* Surface must be strong, dry, clean & free from dust, oil, grease, curing compounds, coatings & other loose materials. for better performance sand blasting, high pressure water jet cleaning, hydrochloric acid etching, mechanical grinding (by pneumatic tools) & wire brushing may be done. in case of acid etching, wash the surface till neutralization.
- \* Open the cracks & clean by blow of oil free air to ensure complete removal of dust & loose particles.

### PLACING/FIXING OF NOZZLES :

- \* Drill holes into the crack of diameter higher than the grouting nipples up to a depth of at least 1/3rd of structural member.
- \* Insert injection nipples / nozzles in to the drill holes at the intervals along the length of etch crack. the distance between each nipple will depend on width & depth of crack. spacing should be close enough to ensure that the resin penetrates along the cracks till the next point of injection.
- \* The surface of the cracks in between the nipples should be sealed with K2 MOCROCONCRETE repair mortars about 30-40 mm wide & 2-3 mm thick band. incase the crack is through & through of a wall or slab, cracks at both the sides must be sealed in similar fashion. first fix the nozzles in the front portion crack, then fix the nozzles at midway points of the front nozzles. this ensures complete filling of grout into crack & surrounding areas.

- \* The repaired work shall be allowed to cure for atleast 8 hrs at 350C, at low temperature of 5-120C curing time is extended and the applicator must ensure that the surface sealant has adequately cured prior to continuing the work.

- \* One end of the injection hose shall be attached to the lowest nipple on vertical cracks or to either end of the horizontal cracks. alternative methods of resin injection are currently in use, they include the system where injection nipples are bonded to the substrate.

#### Mixing :

Thoroughly mix the entire hardener and base resin contents until the liquids become clear.

#### Injection :

- \* K2 JAPOXY IG should be used with standard injection equipment having closed containers. the injection pressure should be at least 0.2 n/mm<sup>2</sup> (2 bar).

- \* Mix only sufficient resin that can be used within the pot life of the materials.

- \* After completion of the injection work, the injection system shall be allowed to cure for 24 hours and shall be left undisturbed for this time. full mechanical properties will be achieved following 7 days curing at 30°C. at lower temperatures curing times will be extended.

#### PRECAUTIONS & LIMITATIONS :

- \* Use the material within the pot life expiry period.

- \* Mix entire pack quantity.

- \* Do not dilute the material with solvents to reduce the viscosity.

- \* Ensure that nozzles are fixed properly without any air leakage.

**CLEANING :** Tools and mixers should be cleaned with suitable aromatic solvent or thinner immediately after use.

**COVERAGE :** The coverage of K2 JAPOXY IG is very much dependent on the depth and extent of cracks within the substrate.

**PACKING :** K2 JAPOXY IG is available in 1 kg pack (base : 0.670 kg & Hardner : 0.330 kg)

**SHELF LIFE :** K2 JAPOXY IG has a shelf life of 12 months in unopened packs, if kept in a dry store. and protect from direct sun light.



## K2 JAPOXY EC | EPOXY RESIN COATING FOR STEEL AND CONCRETE SURFACES

**DESCRIPTION :** K2 JAPOXY EC is a two pack, solvented epoxy coating for, steel and concrete structures to provide protection from weathering, abrasion and chemicals. it provides a durable coating suitable for application to both vertical and horizontal surfaces.

**AREA OF APPLICATION :** K2 JAPOXY EC can be applied to new and old concrete and steel structures that are structurally sound and strong, vertical and horizontal steel, metal and galvanized surfaces, steel tanks, concrete wall & floor, ducts

#### BENEFIT :

- \* Excellent adhesion.
- \* Resistance to oil, grease, water penetration, abrasion, weathering and chemical.
- \* Excellent protective properties.
- \* Excellent over coating characteristics.
- \* Available in various colors.
- \* Can be applied on floors and walls.
- \* Cost effective protective coating.
- \* Forms a smooth and attractive finish.

#### TECHNICAL INFORMATION :

Sr.No.	Properties	Results
1	Color	Blue, grey, red, green (special colors to order)
2	Pot life at 30°C	1.5 hours
3	Surface drying time	3-5 hours
4	Full cure	7 days
5	Temperature range :During application	5°C to 45°C
6	DFT	50 micron/coats.
7	Recommended coats	Minimum 2 coats with total dry film thickness of 100 microns. or three coats with total dry film thickness of 150 microns is recommended.
8	Interval between two coats	3-5 hours

#### APPLICATION INSTRUCTION :

##### Surface preparation :

**Steel surfaces:** Oil contaminated surfaces should be thoroughly cleaned with K2 MULTICLEAN / K2 SOFTCLEAN and sand blasting. where this is not possible, minimal surface preparation with wire brushing should be done. K2 JAPOXY EC can be applied directly to steel surfaces.

- \* Normally primer is not required for steel surface. but after grit blasting / sand blasting, if there is any delay to in erection job, one coat of K2 JAPOXY EC is advisable to prevent further flush rust.

##### Concrete surfaces :

- \* The surface must be strong and free from dirt, dust and loose particles. thoroughly wire brush the surface and clean the dust by air compressor or wash the surface with water.

- \* Oil & grease must be removed using degreasing solvents or K2 MULTICLEAN.

- \* Repair the cracks up to 5 mm with K2 KRACKSEAL and above 5 mm cracks using K2 BOND SBR with mortar.

- \* Surface washed with water shall be allowed to dry completely before application of K2 JAPOXY EC.

**Mixing :** K2 JAPOXY EC is supplied as ready to use in pre-weighted packs of resin and hardener for easy on site mixing. pour the hardener into the resin can, mix well using a paddle attached to an electric drill, for 2-3 minutes until a uniform mixed color is obtained.

**Application:** K2 JAPOXY EC may be applied by brush or airless spray to give a continuous coating on the prepared surface. a second coat may be subsequently applied when first coat is dried.

**Cleaning :** Tools and mixers should be cleaned using suitable aromatic solvent or thinner.

**COVERAGE :** 5 kg pack will cover an area of approximately 18-20 m<sup>2</sup> in two coats at 100 microns dft. however, practical coverage depends upon the nature and porosity of the substrate and application conditions.

**PACKING :** K2 JAPOXY EC is available in 5 kg pack.

**SHELF LIFE :** K2 JAPOXY EC has a shelf life of 12 months in unopened packs, if kept in a dry store. and protect from direct sun light.

## OUR MAJOR CLIENTS

- ✂ Sarjan Infracone Pvt. Ltd.
- ✂ Colgate Palmolive Limited
- ✂ Tavas Construction Private Limited
- ✂ Shapoorji Pallonji & Company
- ✂ Patel Infrastructure Pvt. Ltd.
- ✂ Garrison Engineer (a) Utility - Jodhpur
- ✂ Rishabh Infracone Pvt. Ltd.
- ✂ Shree Digambar Jain Svadhyay Mandir Trust - Songarh
- ✂ Gannon Dunkerley & Co. Ltd.
- ✂ Kankaria Properties Pvt. Ltd.
- ✂ S.kumar Concrete Pvt. Ltd.
- ✂ BAPS Swaminarayan Mandir
- ✂ Sidi Sayed Mosque - Ahmedabad
- ✂ Lions Club - Mehsana
- ✂ J P Structures Pvt. Ltd.
- ✂ Yogi Construction Pvt. Ltd.
- ✂ Medical College - Chindwada
- ✂ Golcha Hospital - Jabalpur
- ✂ Eagle Infra India Ltd.
- ✂ Harsh Construction Pvt. Ltd. - Akola
- ✂ MSPHC - Maharashtra State Police Housing Corporation
- ✂ Rajasthali Textile Export - Unit Of Anokhi Group
- ✂ Polovictory Hotel - Jaipur
- ✂ Mayo School - Unit Of Mayo Collage
- ✂ Ruparel Projects - Mumbai

... and many more



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RESTRUCTURING KONSTRUCTION. KEMICALLY

