



KEM BOND 50



Acrylic Bonding Agent

Cement Modifier for Repair

DESCRIPTION:

KEM BOND 50 is a latex modified acrylic compound made from selected synthetic copolymers to meet various application needs. It provides a waterproof barrier coat to protect and repair RCC and steel structures.

PRODUCT FEATURES:

- Excellent adhesion to most building substrates
- Improves flexural, tensile, and thin section fragility of cementitious systems
- Allows breathing, thus preventing peeling and scaling
- Gives a tough, hardwearing surface with effective waterproofing
- Reduces chloride salt penetration in marine environment
- Resists carbonation effect
- Improves bond strength with steel
- Resists water pressures up to 5 bars
- Self-curing
- Increases overall structural durability
- Is resistant to salts, mild acids and strong alkalis between pH range 4 and 14
- Is non-toxic and thus can be used for coating structures storing potable water

PRODUCT SPECIFICATIONS:

○ Colour	: Milky white
○ Form	: Liquid emulsion
○ Application Temp.	: > 50° C
○ Service Temp.	: - 40° C to + 90° C
○ Pot Life	: Approx. 30 minutes
○ Sp. Gravity	: 1.02 ± .01
○ pH	: 7 - 9
○ Consistency	: Mortar type
○ Water Absorption to ANSI A 118.4 (F - 7)	: 3.2%
○ Compressive Strength	: ASTM C 109 - 38 N/mm ² @ 28 days
○ Bond Strength to ANSI A 118.4 (F 8.2.5)	: 3.5 N/mm ²

STANDARDS:

- Confirms to the performance requirements of ANSI A 118.4, ANSI A 118.1 and ANSI 136.1.



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REPAIR



KEM CRACKFILL 51



Acrylic Crack Filler

Flexible Crack Repair

DESCRIPTION:

KEM CRACKFILL 51 is an acrylic, copolymer based, white, thixotropic paste specially formulated for sealing static cracks.

PRODUCT FEATURES:

- Flexible, withstands temperature variations
- Excellent adhesion to most common building materials
- Easy to apply and non-staining
- UV and water resistant
- Can be painted after 24 hours

PRODUCT SPECIFICATIONS:

- | | |
|---------------|------------------------|
| ○ Appearance | : White viscous paste |
| ○ Sp. Gravity | : 1.40 ± 0.05 g/cc |
| ○ Curing Time | : 7 days |

AREAS OF APPLICATION:

- Exterior and interior surfaces
- Plastered surfaces
- For filling cracks up to 5mm width

METHOD OF APPLICATION:

- Clean the substrate to be treated to make it free from any loose particles and oil or grease stains.
- Press the KEM CRACKFILL 51 paste into the cracks with a spatula or putty knife.
- Level the surface.

PRECAUTIONS:

To be used only for static cracks up to 5mm width.

COVERAGE:

Approx. 25 RMT/kg for 5mm x 5mm crack depending on site conditions



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REPAIR



KEM SEAL 52



Polymer Modified Surface Crack Repair

White Cement Based Surface Sealer

DESCRIPTION:

KEM SEAL 52 is a non-shrink, high strength powder crack filler for surface cracks in plaster. It is a single component, ready to use blend of dry powders. It requires only the addition of clean water to produce a highly consistent cementitious mortar.

PRODUCT FEATURES:

- Cost effective since no independent primer is required
- High performance due to excellent bond to the substrate
- Hydrophobic as it enhances waterproofing property
- Highly flexible as it accommodates physical and thermal movements
- Non-sagging
- Non-shrink

PRODUCT SPECIFICATIONS:

- | | |
|------------------------|------------------------------|
| ○ Nature | : White, free-flowing powder |
| ○ Open Time | : 20 minutes |
| ○ Mix Ratio with Water | : 1:3 by volume |
| ○ W/p Ratio | : 0.23 by weight |
| ○ Pot Life | : 30 minutes |

AREAS OF APPLICATION:

Apply to external cracks of up to 200mm width for imperfections in plaster, masonry or concrete

COVERAGE:

30 RMT/kg for 6mm x 6mm depth

PACKAGING:

25 kg in moisture-resistant bags

STORAGE:

- In a cool and dry place away from moisture and direct sunlight
- Close opened bags immediately after use



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REPAIR



KEM SEAL 53



Cementitious Crack Sealer

Polymer Modified Crack Repair

DESCRIPTION:

KEM SEAL 53 is a polymer-modified, cement based compound formulated for filling cracks in concrete and masonry surfaces. A single component and ready to use powder, it requires only addition of clean water to produce highly consistent cementitious mortar. It adheres to cement, plaster, gypsum plaster and fibre cement.

PRODUCT FEATURES:

- Cost effective since no independent primer is required
- High performance due to excellent bond to the substrate
- Hydrophobic as it enhances waterproofing property
- Highly flexible to accommodate physical and thermal movements
- Non-sagging
- Non-shrink

PRODUCT SPECIFICATIONS:

- | | |
|---------------------------|----------------------------|
| ○ Nature | : Grey free flowing powder |
| ○ Open Time | : 20 minutes after mixing |
| ○ Mixing Ratio with Water | : 1:3 by volume |
| ○ W/P Ratio | : 0.23 by weight |
| ○ Pot Life | : 30 minutes |

AREAS OF APPLICATION:

- Filling cracks and other imperfections in plaster and concrete before painting
- Gaps around doors and window frames, light switches and sills
- Cracks around nail holes, in wood grain, knot holes, etc.

METHOD OF APPLICATION:

- Clean all the areas to be patched and make them free from oil, grease dirt, dust, deteriorated concrete and other contaminants.
- Abrade or acid etch slick surfaces to ensure proper bond.
- Pre-wet the prepared area with potable water before applying KEM SEAL 53.
- Remove any excess water by sweeping or blowing it away to prevent dilution of material.
- KEM SEAL 53 requires approx. 230-300 ml of potable water/kg. A stiff mix is recommended which can be achieved by mixing with less water.
- Using a hand trowel, mix small quantities of KEM SEAL 53 in a clean container. For mixing large quantities use a rotary mixer with blades.



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REPAIR



KEM MICRO 56



High Strength Microconcrete

Structural Repair Mortar

DESCRIPTION:

KEM MICRO 56 is a general purpose non-shrink, cementitious, flowable, high strength mortar for repairs with high strength precision concrete. It is free flowing and suited for thickness up to 40 mm to 100 mm. It is apt for various structural strengthening measures such as encasement build-ups, jacketing, etc.

PRODUCT FEATURES:

- Can be pumped or poured into restricted locations
- Flowable mortar eliminates honey combination
- Develops high initial and ultimate final strength
- Gaseous expansion system compensates for shrinking and settles in the plastic state
- Excellent resistance to moisture ingress
- Can be applied at 100mm thick at one stroke
- Self compacting with guaranteed performance
- Easy to use by adding water on site
- Contains no chloride hence there is no reinforcement corrosion

PRODUCT SPECIFICATIONS:

- Nature : Cementitious grey powder
- Flexural Strength : >5 MPa at 28 days
- Chloride Content : Nil
- Depth of Carbonation : Nil
- Compressive strength : ASTM C-109 cubes casted under restraint in N/mm² at 25°C and water powder ratio 0.130 for flowable consistency and 0.10 for mortar consistency.

Age (days)	Mortar consistency	Flowable consistency
1	30	18
7	58	46
28	80	60

- Wet Density : BS 1881 – 2250 kg/m³ giving a yield of 15/30 kgs bag at flowable consistency
- Flexural Strength : @28 days 25° C 10 N/mm²
- Setting Time : BS 4550 at 20° C and 0.130 water to powder ratio (flowable consistency).
Initial set : 6 hours 00 minutes



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KEM FLOOR 57



Non-metallic Floor Hardener

Monolithic Floor Topping

DESCRIPTION:

KEM FLOOR 57 is a ready to use non-metallic floor hardener based on very high quality natural hard aggregates. These aggregates play an important role in attributing properties of abrasion and wear resistance. It renders tough, wear resistant, dust free, anti-skid, long lasting and maintenance free floors. It bonds monolithically to the base concrete and is suitable for existing as well as new floors.

PRODUCT FEATURES:

- Hardwearing and dustproof floor toppings
- Anti-skid and anti-slip in case of oil spillages
- Good water proofing properties, hence suitable for rooms and exteriors that are constantly wet
- Non-rusting and therefore trouble free
- Resistant to petrol, diesel and vegetable oils
- Abrasion resistant is twice as good as normal concrete
- Increases strength and impact resistant
- Suitable for old floors, new floors and repairs
- Substantial increase in service life and therefore works out economical
- Has extremely low shrinkage
- Extremely high abrasion resistance
- At water contents obtained in practical applications it will achieve a very high compressive strength

PRODUCT SPECIFICATIONS:

- Appearance : Cementitious grey powder
- Hardness : 7 on Mohs' scale

KEM FLOOR 57 when tested at a water powder ratio of 0.10 typically yields the following typical values:

Age (days)	Compressive strength as per ASTM C 109 (N/mm ²)
1	40
7	70
28	85

AREAS OF APPLICATION:



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KEM GROUT 58



Expanding Grouting Aid

Cementitious Grouting Admixture

DESCRIPTION:

KEM GROUT 58 is an expanding grout admixture for injection grouting in structural and pre-stressed concrete elements. It can also be used for filling joints between precast concrete units, grouting of concrete beams, columns and normal repair work where shrinkage must be avoided. Moreover, KEM GROUT 58 has an expansion property which resists the natural shrinkage of cement. The plasticizing effect increases the fluidity of the concrete mix so that a proper grouting operation can be achieved.

PRODUCT FEATURES:

- Improves cohesion in the concrete mix
- Prevents segregation of the grouting mortar and improves its adhesion property, minimizing voids in the grouted mass
- Helps to obtain a workable cement grout by increasing its flowability
- Helps to achieve a non-shrink grout mix owing to its expanding action
- Contains no chlorides
- Easy flow helps ease of placement
- Leads to high dispersion thus making it possible to reduce W/C ratio to get a denser mix.
- Grouting operation becomes easier in narrow cross sections in low water content.
- Can be used with any type of cement

PRODUCT SPECIFICATIONS:

- State : Powder
- Colour : Grey

AREAS OF APPLICATION:

- Basements
- Swimming pools
- Toilets
- Terraces

METHOD OF APPLICATION:

- Mix cement and water for at least 4 minutes to get a homogeneous mix.
- Add KEM GROUT 58 to this mix.
- For best results, always add water, then cement, followed by KEM GROUT 58.

PRECAUTIONS:



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KEM RUSCON 59



Rust Converter

Rust Protection Treatment

DESCRIPTION:

KEM RUSCON 59 is a rust converting chemical solution for application on industrial structures prior to painting. Proper surface preparation is necessary for better and longer life of the painted surface. However, since it may not always be possible to remove the rust completely and uniformly from the surfaces, KEM RUSCON 59 proves useful. It works by reacting with rust and converting the same into an insoluble grayish black coating.

PRODUCT FEATURES:

- Has anti-corrosive properties of conversion coating
- Can be over coated with all common lacquers and primer systems
- Penetrates into rust directly
- Neutralizes the corrosion process by converting iron oxide into a stable, insoluble, grayish-black phosphate coating
- Gives an additional insulating and protecting effect
- Not harmful to the environment since produced as a dispersion
- Short reaction time
- Can be applied on damp surfaces
- Protects the metal from rusting further
- Provides a base for application of a protective paint coating

PRODUCT SPECIFICATIONS:

- | | |
|-----------------------------------|-------------|
| ○ Colour | : Brown |
| ○ Reaction time | : < 3 hours |
| ○ Flash point | : 100°C |
| ○ Life expectancy after treatment | : 5 years |

AREAS OF APPLICATION:

- All rusted iron, steel surfaces prior to painting
- Areas where the metal surfaces are exposed to corrosive liquid and gases such as chemical plants
- Steel works in marine areas, etc.

METHOD OF APPLICATION:

- Clean the surface to be treated by making it free from oil, grease, loose rust and any film of paint.
- Remove loose rust with wire brushing.
- If necessary clean parts from salt deposits with clean water.



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