



KEM BRUSH 73



Flexible Waterproofing Slurry

2 - Pack Acrylic Waterproofing

DESCRIPTION:

KEM BRUSH 73 is a high performance, two-component elastomeric cementitious waterproof coating for concrete, slabs and masonry. It also acts as surface protection for reinforced concrete. Designed for waterproofing hydraulic projects, it is a specialty treatment coat for internal and external waterproofing.

PRODUCT FEATURES:

- Is an excellent impermeable coating, forms flexible cementitious membrane
- Excellent adhesion with all cementitious substrates
- Highly durable and economical
- Flexible cement bound slurry for minor crack bridging sealing in concrete and plasters
- Used as surface protection for reinforced concrete
- Can be applied on both sides of water pressure
- Tools and equipments can be washed easily with water
- Available in brushable consistency
- Allows water vapour to escape from the substrate
- Non-toxic, non-hazardous and non-flammable hence suitable for water tanks
- Suitable for all any type of weather conditions including UV resistant
- Surface preparation is very minimum and hence low labour cost Protects against acid gases, chloride ions, oxygen and water

PRODUCT SPECIFICATIONS:

- | | |
|---------------------------------------|---|
| Nature | : Two components |
| Appearance | : Grey powder and white liquid |
| Mixing Ratio | : Powder : liquid = 2:1 (by weight) |
| Consistency After Mixing | : Brushable |
| Pot Life at 30°C | : 30 minutes |
| Application Temperature | : Between 10°C to 30°C |
| Tensile Strength (N/mm ²) | : 0.5 N/mm ² (at 23°C); (6 N/mm ² at -20°C) |
| Elongation (%) | : 100 (at 23°C); 20% (at -20°C) |
| Water Vapour Permeability | : 15 g/m ² at 1mm thickness on an aerated concrete substrate |
| Co ₂ Diffusion | : Equivalent air thickness Rb ≈ 100m (Substrate - Cement Mortar) |
| Adhesion to Concrete | : Excellent |

NOTE: All above mentioned properties are typical and should not be construed as a specification. Additionally these properties have to be tested after 28 days air cure of films at 25°C and 50% RH.

AREAS OF APPLICATIONS:



Happy Buildcon Pvt. Ltd.
1-Happy complex
Opp.Bhagyoday Bank,
Nr.Chyamal Cross Road,
Satellite , Ahmedabad-380015
Ph. No-(079) 26 75 44 22

WATERPROOFING



KEM DAMP 83



Water-based Epoxy Damproofong

2 - Pack Epoxy Waterproofing

DESCRIPTION:

KEM DAMP 83 is a two-component, epoxy resin based coating that can be diluted with water. It is especially made for internal walls, ceilings and RCC water tanks.

PRODUCT FEATURES:

- ◊ Allows water in the walls to evaporate in the form of vapour
- ◊ Dilutable with water and has high covering ability, making it very economical
- ◊ Reduces water permeability
- ◊ Excellent adhesion to all cementitious substrates
- ◊ After attaining the full curing stage becomes a thick and hard film coat
- ◊ Can be directly applied over damp concrete or plaster and thus provides excellent water resistant coating
- ◊ Does not require curing
- ◊ Can be applied on both sides of water pressure
- ◊ Offers excellent resistance to salt water, mild acids and alkalis
- ◊ Non-toxic, non-hazardous and non-flammable
- ◊ Possesses anti-fungal property and is resistant to microorganisms
- ◊ Useful as a primer for water based paints or solvent based paints

PRODUCT SPECIFICATIONS:

- | | |
|---|---------------------------|
| ◊ Nature | : Two-component |
| ◊ Consistency After Mixing | : Free flowing fine paste |
| ◊ Pot Life at 30°C | : 1 - 1.5 hrs |
| ◊ Time Period Between Two Coats at 30°C | : 6 - 8 hrs. |

AREAS OF APPLICATION:

- ◊ Internal damp walls and ceiling
- ◊ RCC water tanks
- ◊ Primer for painting on internal and external walls
- ◊ Damp walls of toilets, kitchen walls and lift pits
- ◊ As a putty with OPC – white cement to fill fine cracks of walls
- ◊ Sterile areas of food/pharma industries

METHOD OF APPLICATION:



Happy Buildcon Pvt. Ltd.
1-Happy complex
Opp.Bhagyoday Bank,
Nr.Chyamel Cross Road,
Satellite , Ahmedabad-380015
Ph. No-(079) 26 75 44 22

WATERPROOFING



KEM PLAST 74



Liquid Mortar Plasticizer

Integral Plastering Aid

DESCRIPTION:

KEM PLAST 74 is a liquid mortar plasticizer cum waterproofer, which on addition to a plastering mix improves the workability and cohesiveness of the mix. It mainly improves the plaster adhesion to a surface. The plaster thus formed is dense, watertight and free from shrinkage cracks.

PRODUCT FEATURES:

- Increases workability of the plastering mix
- Helps to improve surface finish
- Leads to reduction in shrinkage cracks
- Improves adhesion of plastering mix with substrate
- Reduces the rebound losses, thus saving cement
- Reduces transmissibility and porosity
- Due to hygroscopic constituent, it retains moisture thus ensuring complete hydration
- Tough and high strength plaster is ensured Easy to use
- Finds major application in mortar related jobs

PRODUCT SPECIFICATIONS:

- | | |
|--------------------|--------------------------|
| ◦ Appearance | : Yellowish brown liquid |
| ◦ Sp. Gravity | : 1.18 ± 0.02 |
| ◦ Chloride Content | : 0.01 - 0.03 |
| ◦ pH Value | : 13.0 - 14.0 |
| ◦ Air Content | : < 1% |

STANDARDS:

Complies with BS: 4887, ASTM: C 91.

AREAS OF APPLICATION:

- In all plastering mixes
- Brick laying mortars
- Pointing and block work
- Patching and flooring mortars

METHOD OF APPLICATION:



Happy Bulidcon Pvt. Ltd.
1-Happy complex
Opp.Bhagyoday Bank,
Nr.Chyamel Cross Road,
Satellite , Ahmedabad-380015
Ph. No-(079) 26 75 44 22

WATERPROOFING



KEM PLUG 82



Leak Plugging Mortar

Emergency Repair for Water Leaks

DESCRIPTION:

KEM PLUG 82 is a specially formulated leak plugging compound. Its rapid setting property helps to plug leaks instantly.

PRODUCT FEATURES:

- Easy to use. Only water has to be added at the site
- Pre-packed in controlled conditions for consistent quality
- Effectively seals cracks in concrete and masonry
- High early and final strength
- Hardens immediately

PRODUCT SPECIFICATIONS:

- | | |
|----------------|----------------------------|
| ◦ Appearance | : Cementitious grey powder |
| ◦ Setting Time | : 3 - 5 minutes |

AREAS OF APPLICATION:

- Basements
- Ducts in tunnels
- Dams
- Concrete pipes
- Water retaining structures
- RCC water tanks

METHOD OF APPLICATION:

- Identify the exact source of leakage before application of KEM PLUG 82.
- Dry KEM PLUG 82 can be applied at the source of leakage and held with a gloved hand. The dry powder gets wet due to the leaking water and hardens within 3 - 5 minutes.
- Alternatively, mix 3 parts of KEM PLUG 82 in 1 part water.
- Take the required quantity of mixed material in gloved hands.
- Hold the material in place for 3-5 minutes.

PACKAGING:



Happy Bulidcon Pvt. Ltd.
1-Happy complex
Opp.Bhagyoday Bank,
Nr.Chyamal Cross Road,
Satellite , Ahmedabad-380015
Ph. No-(079) 26 75 44 22

WATERPROOFING



KEM PROOF 71



Elastomeric Waterproofing Coating

Heavy Duty Waterproof Coating

DESCRIPTION:

KEM PROOF 71 is a heavy duty bituminous elastomeric waterproofing coating product.

PRODUCT FEATURES:

- Highly impermeable, safe, non-flammable
- Pourable consistency, therefore easily brushable
- Prevents fungal and bacterial growth
- Very flexible, accommodates movements in cracks, does not crack with age
- Cold applied, user friendly
- Does not require curing
- Dries fast, ready to use with sufficient open time

PRODUCT SPECIFICATIONS:

- Appearance : Black after drying
- Specific gravity : 1.09 ± 0.02
- Viscosity : 18 to 25 poise

AREAS OF APPLICATION:

- Asbestos cement roofs and around 'J' hooks
- Sunken portions of toilets
- Sewage pipes
- Plinth, foundation, basements etc.

METHOD OF APPLICATION:

- Clean the required surface to ensure there is no loose material or contamination before coating.
- Moisten the surface adequately prior to application. Also allow surface water to evaporate.
- In case of sunken slabs in toilets, bathrooms, extend the coat by 1 - 1.5 feet above the floor finish level.
- Allow the first coat to dry for 4 to 5 hours, apply the second coat and allow it to dry for 48 hours. (a fibre net cloth must be sandwiched between 2 successive coats especially in the cracks of asbestos sheets).
- Protect the coating from getting damaged by overlaying it with 15mm cement sand mortar.

COVERAGE:

- 15-20 sq.ft./kg for 2 coats



Happy Buildcon Pvt. Ltd.
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Ph. No-(079) 26 75 44 22

WATERPROOFING



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WATERPROOFING



KEM PROOF 75



Polymer Waterproofing

Multiple Application Polymer

DESCRIPTION:

KEM PROOF 75 is a polymeric compound made from selected synthetic copolymers. It meets various application needs to give a complete repair as well as waterproof barrier coating to RCC and steel structures. When blended with cement of different consistencies, KEM PROOF 75 makes it suitable to provide bonding and barrier coating.

PRODUCT FEATURES:

- ◊ Excellent adhesion to most building substrates.
- ◊ Combats the inadequacies of cement like low flexural strength and tensile strength, low impact strength, and thin section fragility
- ◊ 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
- ◊ Resists water pressures up to 5 bars
- ◊ Self-curing
- ◊ Increases overall structural durability
- ◊ Being non-toxic, it can be used for coating structures storing potable water

PRODUCT SPECIFICATIONS:

- | | |
|---------------------|----------------------|
| ◊ Colour | : Milky white |
| ◊ Form | : Liquid emulsion |
| ◊ Application Temp. | : > 5° C |
| ◊ Service Temp. | : - 40° C to + 90° C |
| ◊ Pot Life | : Approx. 30 minutes |
| ◊ Specific Gravity | : 1.02 ± .01 |
| ◊ pH | : 7 - 9 |

AREAS OF APPLICATION:

- ◊ Helps achieve waterproof underground structures
- ◊ Waterproofs water retaining structures, terraces, parapets, bathrooms and sunken portions of toilet blocks
- ◊ Bonds new concrete to old concrete
- ◊ For fixing ceramic tiles, floor screeding and mosaic tiling
- ◊ Crack repair and porous surface sealing
- ◊ Helps avoid conditions created due to breeding of termites
- ◊ Eliminates discomfort and helps healthy conditions to prevail



Happy Bulidcon Pvt. Ltd.
1-Happy complex
Opp.Bhagyoday Bank,
Nr.Chyamal Cross Road,
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Ph. No-(079) 26 75 44 22

WATERPROOFING



KEM PROOF 77



Liquid Water Proofing

Integral Waterproofing Compound

DESCRIPTION:

KEM PROOF 77 is an integral waterproofing compound for addition to cement-based mortars and concrete. When added to the mix, it spreads over the cement and aggregates, disperses the cement particles and reduces the effect of capillary action by forming dense concrete. It makes the mix hydrophobic, reduces its permeability, and thus increases the waterproofing.

PRODUCT FEATURES:

- Being in liquid form, ensures instantaneous dispersion and homogeneous mixing
- Improves workability of the concrete
- Produces cohesive mix and reduce segregation and bleeding
- Permeability of the mortar and concrete is reduced appreciably
- Helps to achieve good compatibility
- Very economical to use
- Reduces transmissibility and porosity
- Reduces health and safety problems caused due to dampness in floors
- Prevents the wall faces from getting affected due to seepage of water, resulting in efflorescence and discoloration
- Makes the construction work more durable

PRODUCT SPECIFICATIONS:

- Appearance : Dark brown liquid
- Sp. Gravity : 1.08 ± 0.02
- Ph : 7- 8
- Chloride Content : Nil
- Water Proofing : Water penetration typically less than 30mm when tested to **DIN 1048 Part-5 1991** and **DIN 1045 Page-24** clause 6.5.7.5 on at least 3 test cube made from a concrete with w/c ratio of 0.45 at an age of 28 - 35 days and expressed as an average in mm.

STANDARDS:

Complies with IS 2645 specifications

AREAS OF APPLICATION:

- Basements
- Ceiling leakage
- Wall leakage



Happy Bulidcon Pvt. Ltd.
1-Happy complex
Opp.Bhagyoday Bank,
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Ph. No-(079) 26 75 44 22



KEM PROOF 80



Powder Waterproofing

Integral Waterproofing Compound

DESCRIPTION:

KEM PROOF 80 is a waterproofing compound for cement, concrete and mortars. It is a special blend of water repellent and other chemicals used in admixtures. It protects against freeze - thaw effect and helps to improve the final strength of both concrete and mortar.

PRODUCT FEATURES:

- ◊ Forms an internal barrier against water penetration
- ◊ Reduces water absorption up to 60%.
- ◊ Reduces capillary action
- ◊ Causes reduction in water content
- ◊ Increases workability of concrete and mortar
- ◊ Non-toxic
- ◊ Does not corrode reinforcements
- ◊ Increases cohesiveness and hence reduces permeability

PRODUCT SPECIFICATIONS:

- ◊ Nature : Free flowing powder
- ◊ Colour : White
- ◊ ASTM: C:494 : Type A & D
- ◊ Absorption Ratio :

	Normal	With KEM PROOF 80
Mortar	0.35	0.18
Relative Absorption	100%	60%

STANDARDS:

- ◊ Complies to Indian Standard Specification IS 2645 - 1975
- ◊ Water Proofing : Reduction of water absorption by 25 - 40% as per ASTM C 642.

AREAS OF APPLICATION:

- ◊ In pre-cast concrete, cement- rendering



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1-Happy complex
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Ph. No-(079) 26 75 44 22

WATERPROOFING



KEM PROOF 81



Crystallizing Waterproofing Coat

Sealer for Concrete Capillaries

DESCRIPTION:

Kem Proof 81 is an integral capillary concrete waterproofing compound which waterproofs and protects concrete in depth. It consists of Portland cement, specially treated quartz sand and specialty chemicals.

PRODUCT FEATURES:

- Ease of application
- Penetrates deeply and seals concrete capillary tracts and shrinkage cracks
- Applicable for either positive or negative side pressure
- Effective under high hydrostatic pressure
- Tear or puncture resistant
- Does not require protection
- Withstands aggressive saline or chemical attack

PRODUCT SPECIFICATIONS:

- | | |
|---------------|---|
| ◦ Appearance | : Grey powder |
| ◦ Penetration | : 2mm per week |
| ◦ pH | : 11 ± 1 |
| ◦ Curing | : Damping for 5-7 days by mist spraying water and covering with polythene sheets. |

AREAS OF APPLICATION:

- Basements and foundations
- Tunnels and subways
- Sewage and water treatment plants
- Concrete pipes
- Dams and reservoirs
- Harbours and bridges
- Parking areas

METHOD OF APPLICATION:

- Clean the surface to be treated and free it from laitance, loose material, dust, dirt, oil, grease, general grime, all contaminants etc.
- Repair and treat all structural cracks properly
- Fill all non-structural cracks more than 1mm width.



Happy Buildcon Pvt. Ltd.
1-Happy complex
Opp.Bhagyoday Bank,
Nr.Chyamal Cross Road,
Satellite , Ahmedabad-380015
Ph. No-(079) 26 75 44 22

WATERPROOFING



KEM REPEL 79



Silone-Siloxane Water Repellent

External Surface Sealer

DESCRIPTION:

KEM REPEL 79 is an all purpose, unique, colourless, water repellent emulsion based on silone-siloxane.

PRODUCT FEATURES:

- ◊ Easily penetrates all masonry structures
- ◊ Offers resistance to high alkalinity
- ◊ Has strong water repellent characteristics
- ◊ Dries under normal atmospheric conditions
- ◊ Ready to use

PRODUCT SPECIFICATIONS:

- ◊ Appearance : Clear to light yellow liquid
- ◊ Base : Silone-Siloxane
- ◊ Specific Gravity : 0.8 ± 0.05
- ◊ Drying Time : 4 - 6 hours

AREAS APPLICATIONS:

- ◊ All concrete substrates
- ◊ Mineral plasters
- ◊ Concrete Blocks
- ◊ Mineral based stone structures
- ◊ Brick structures
- ◊ Mineral paints
- ◊ Mangalore, ceramic and structural tiles
- ◊ Corrugated AC sheets

METHOD OF APPLICATION:

- ◊ Clean the substrate to be treated and make it free of any loose material, laitance, oil or grease.
- ◊ Ensure that the surface is dry and then apply a coat of KEM REPEL 79 on it.
- ◊ Allow it to cure for 24 hours.

PRECAUTIONS:



Happy Buildcon Pvt. Ltd.
1-Happy complex
Opp.Bhagyoday Bank,
Nr.Chyamal Cross Road,
Satellite , Ahmedabad-380015
Ph. No-(079) 26 75 44 22

WATERPROOFING



KEM REPEL 78



Silicon Water Repellent

External Surface Sealer

DESCRIPTION:

KEM REPEL 78 is a ready to use all purpose colourless water repellent.

PRODUCT FEATURES:

- ◊ Easily penetrates all masonry structures
- ◊ Offers resistance to high alkalinity
- ◊ Has strong water repellent characteristics
- ◊ Dries under normal atmospheric conditions
- ◊ Acts as a damp proof course when injected
- ◊ Bridges hairline cracks up to 0.3mm width
- ◊ Ready to use

AREAS OF APPLICATION:

- ◊ Exterior surfaces of concrete, stone and masonry
- ◊ Mangalore, ceramic, decorative and roof tiles
- ◊ Mineral paints
- ◊ Corrugated AC sheets

METHOD OF APPLICATION:

- ◊ Clean the substrate to be treated and make it free of any loose material, laitance, oil or grease.
- ◊ Ensure that the surface is dry and then apply a coat of KEM REPEL 78 on it. Allow it to cure for 24 hours.

PRECAUTIONS:

Avoid using KEM REPEL 78 during strong wind pressure and rains.

COVERAGE:

70 - 100 sq.ft./ℓ/coat depending on substrate conditions

PACKAGING:

1ℓ, 5 ℓ, 10 ℓ



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