KEM BRUSH COAT

Flexible Waterproofing Slurry

Description

KEM Brush Coat 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.

Uses

- Bathrooms and Toilets
- Water tanks
- Basements
- Channels
- Faces of dam walls
- Swimming pools
- Basins
- Storage tanks
- Balconies and terraces
- Concrete structures like pillars and beams for road and railway bridges
- Cooling towers
- Underpasses
- Water retaining walls

Advantages

- 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 vapor 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

Typical Properties

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^{0}C: 30 minutes

Application Temperature: Between 10^{0}C to 30^{0}C

Tensile Strength (N/mm^2): 0.5 N/mm^2 at 23^{0}C); (6 N/mm$_2$ at -20^{0}C)

Elongation (%): 100 (at 23^0); 20% (at -20^{0}C)

Water Vapor 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^{o}C and 50% RH.

Direction for use

Strip off any old treatment on the mother slab.

Ensure the surface to be treated is sound and thoroughly clean. Check that the mother slab is free of cracks.

Remove all cement laitance, flaky parts and traces of powder, grease, oil and remove compounds with vacuum, sand blasting or wash with high pressure water.

Thoroughly wet the application area with water. Check for any standing water. The area should be wet yet dry to touch.

In the case of waterproofing terraces, balconies and swimming pools check and seal the plastic shrinkage cracks with KEM Crackfill . Any existing cracks of more than 0.2mm width must first be chiseled out and filled with cement mortar. Ensure all the edges are cut off to less than 450 or chamfer the width to 4 cm.

Add the powder component to the liquid i.e. add Part A component to Part B in the ratio 2:1

Mix both the components in a slow speed mixer at 100 - 200 RPM till a brushable consistency is achieved.

While mixing check for lumps and crush if any have formed.

Apply the mixture with the help of a brush on the prepared surface.

Do not add water in the mixture.

Apply the second coat after 5 hrs so as to achieve 1mm coating thickness in two coats.

To achieve thickness of 1.5 - 2mm KEM Fibre must be used between two coats of KEM Brush Coat.

Cure time of 16 hours between coats. Whilst there is no need for a curing aid, it is important that applied surface is allowed to cure on its own for at least 7 days at 30°C and above 14 days at 20^{0}C or below. Any testing (if required) should be carried out after the curing period.

Note: If KEM Brush Coat is used in tanking situations it is preferable to wash down the surface with water after the curing period and then put into use.

Usages guideline

For terraces:

After curing, protect the treated area with cement sand mortar screed of 25 mm thickness with brick bat coba, tiles etc.

For sunken slabs/toilets and bathrooms:

In horizontal applications screed of 10 - 15mm thickness with 1:3 should be laid over KEM Brush Coat.

This gives protection for other activities like plumbing and sanitary works.

In vertical applications use KEM Brush Coat over a dry KEM Brush Coat film coat. Plastering work should start when the KEM Proof coat is in tacky state.

For swimming pools (internal application):

Before applying KEM Brush Coat, the RCC walls and the base slab of swimming pools must be thoroughly cured for 28 days. All the cold joints must be checked and properly treated.

Once the KEM Brush Coat has been applied, start tiling work after 72 hrs of proper air curing. Use Kem tile range of tile adhesive products for excellent results.

For water tanks (internal application)**:**

Before applying KEM Brush Coat, the RCC walls and the base slab of swimming pools must be thoroughly cured for 28 days. All the cold joints must be checked and properly treated.

After the application of KEM Brush Coat, protect the coats of KEM Brush Coat with cement sand screed / mortar premixed with KEM KEM Brush Coat for excellent results.

Coverage:

6 sq.ft/kg for 2 coats for total minimum thickness of 1mm (DFT)

For protection against physical damage use 15 – 25 mm thick cementitious screed

Packaging

15 Kg

Storage and Shelf life

Away from direct sunlight.

Shelf life is 12 months from manufacture.

Technical Service

Chembond has established itself in various fields on the basis of its dependable technical service. For this purpose, we maintain a well equipped laboratory for research & quality assurance of all products. Our experienced personnel are always on call and would always be available for product demonstrations and product performance monitoring.

Safety precautions

Consume the mixed material within 30 mins., at 30^0C.

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