

KEM PROOF PWC

White coloured polymer for modified cement based waterproof coating and mortar

Description

KEM Proof PWC 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 PWC makes it suitable to provide bonding and barrier coating.

Uses

- Helps achieve waterproof underground structures.
- Waterproofs water retaining structures, terraces, parapets, bathroom 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.
- Being non-toxic, it can be used for coating structures storing potable water.

Advantages

- √ 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.
- √ Reduces or eliminates dampness, thus helps avoid conditions created due to breeding of termites.
- √ Due to reduced humidity, eliminates discomfort and helps healthy conditions to prevail.

Typical Properties

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

Standards

ASTM C-1059 / 1059M - 99 (2008) when used as latex based bonding agent.

Chembond Chemicals Limited

Chembond Centre, EL-71 Mahape MIDC,
Navi Mumbai 400710. INDIA.
T: (+91 22) 39213000-03 • F: (+91 22) 39213100
www.chembondindia.com
enquiries.conschem@chembondindia.com

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Direction for use

Surface preparation of the substrate is vital for the effective adhesion and bonding of KEM Proof PWC. Ensure that the surface is free of laitance and loose dust particles, oil, grease and other loose dirt. Wire brush and broom the surface before application.

Level the surface in case of any unevenness. If the reinforcement is corroded, clean it and free it of all loose particles. Prepare a slurry coat of cement and KEM Proof PWC by mixing the two in the ratio 1:1.5. Apply this slurry to the clean, leveled surface with a soft, 4-inch plastic thistle brush. Apply the brush strokes in one direction only.

Allow this coat to air dry for about 4 hrs. Do not spray any water on it. Next, apply a second coat of the slurry at right angles to the first coat. Allow this coat to air dry overnight. Do not spray any water and do not walk on the surface. After letting the second coat air dry for about 12 hours, sprinkle some water on the coat after every 2 hrs.

Continue this for 48 hours. The treated surface is then ready to use.

It is highly recommended to conduct a pond test, for ascertaining the effectiveness of KEM Proof PWC. In case of improper waterproofing at a particular spot, apply a touch up coat of the KEM PROOF PWC and cement mixture and allow it to cure.

Usage guideline

Application	Mixing Properties				Consistency
	Cement (in Kg.)	KEM PROOF PWC (in Kg)	Sand (in Kg)	Water (in Kg)	
Waterproofing	1.5	1	-	-	Brushable
Bonding Coat	1	1	-	-	Brushable
Polymer Mortar	2.5	1	7.5	3	Trowelable

Coverage

30 sq.ft. as a slurry coating after mixing with cement.

Packaging

25 Kg to 200 Kg

Storage and Shelf life

Keep away from direct sunlight.

Shelf Life is 12 months from manufacturing date, for original sealed packaging.

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

KEM Proof PWC is non-toxic, non-flammable and

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non-hazardous. However, any splashes on any part of the human body must be washed with plenty of water.

Limited Liability

The information in this datasheet is based on our current level of knowledge. It is given in a good faith but it is not intended to guarantee any particular properties. The users must satisfy themselves that there are no circumstances requiring additional information or precautions or verification of the details given herein.

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