



TECHNICAL DATA SHEET

KEM PROOF PWC

Multipurpose Polymer in Concrete Applications

DESCRIPTION:

CHEMBOND offers the latest polymeric compound made from selected synthetic copolymers to meet various applications needed to give a complete repair cum waterproof barrier coating to RCC and steel structures. Kem Proof PWC mainly comprises of polymer components based on latex modified acrylic copolymer. When blended with cement with different consistencies, the Polymer: Cement mixture makes it suitable to provide the bonding as well as barrier coating.

Kem Proof PWC: Protective waterproof slurry coating.

The flexible and elastomeric nature of this system has properties, which are able to combat the inadequacies of cement like low flexural strength and tensile strength, low impact strength, and thin section fragility. The resultant system offers a tough, hard wearing surface with abrasion, chemical and weather carbonation resistance coupled with excellent waterproofing effect for marine environments as well.

PRODUCT SPECIFICATION / COMPLIANCES:

- ◆ Colour : Milky white.
- ◆ Form : Liquid emulsion.
- ◆ Appln. Temp. : > 5^o C.
- ◆ Service Temp. : - 40^o C to + 90^o C.
- ◆ Pot life : Approx. 30 minutes.

PRIMARY APPLICATIONS:

- ◆ Helps achieving waterproof underground structures.
- ◆ Waterproofing water retaining structures, terraces, parapets, bathrooms and sunken portions of toilet blocks.
- ◆ Bonding new concrete to old concrete.

- ◆ Fixing ceramic tiles, floor screeding and mosaic tiling.
- ◆ Crack repair and porous surface sealing.
- ◆ By using Kem Proof PWC the conditions created due to breeds of termites are avoided.
- ◆ Healthy conditions prevail and discomfort is eliminated.

PRODUCT FEATURES:

- ⊗ Excellent adhesion to most building substrates.
- ⊗ Improves flexural, tensile, and thin section fragility of cementitious system.
- ⊗ 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

Usage

Surface preparation of the substrate is vital for the effective adhesion and bonding of Kem Proof PWC. So, the surface should be free of laitance and loose dust particles, oil, grease and other loose dirt. The surface should be wire brushed and broomed before application.

The performance of Kem Proof PWC, whether patches, renders, screeds, toppings or slurry only, is dependent on the substrate preparation. Depending upon the structural condition, preparation should be done. The basic idea is that the substrate should be clean, sound and free from any deleterious material. The unevenness of the surface should be leveled. The corroded reinforcement should also be made clean and all loose particles should be removed.

Barrier coat

Prepare a slurry coat of cement-Kem Proof PWC mixing them at a ratio 1:1.5. The slurry has to be applied on the repaired surface with a soft 4-inch plastic thistle brush in one direction. Allow this first coat to air dry for about 4 hrs. Do not spray any water on it.

Apply a second coat of the slurry in the direction of right angles to the first coat. Allow this coat to air dry overnight, and do not spray any water or walk over the surface.

After about 12 hours of air drying of the second coat, sprinkle little water on the coating at an interval of 2 hours. Continue this for 48 hours. The surface can then be put to use.

We suggest conducting a pond test in order to ascertain the effectiveness of Kem Proof PWC. In case of improper waterproofing at a particular spot, a touch up coat of the Kem Proof PWC and Cement mixture should be applied over the particular area and must be allowed to cure.

For other repair applications, please refer to ***Kem Bond Repair System*** guideline.

Chembond technical service team is also available to train your personnel and supervise the initial operation at your construction site.

PACKAGING: 1/5/10/30/50 / 100 kg HDPE containers.

SHELF LIFE : 12 months in un opened container

STORAGE: Keep away from direct sunlight and extreme heat.

COVERAGE: 1 Kg of Kem Proof PWC approximately gives average coverage of ~30 square feet as a slurry coating after mixing with cement.

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

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