

BONDFLEX 2K

High Performance Acrylic Polymer modified Cementitious Waterproofing Coating



PRODUCT DESCRIPTION

BONDFLEX 2K is a two component, polymer modified, cementitious coating which is create non porous film on the substrate BOND FLEX 2K consisting of cements, finely graded aggregates and a proprietary blend of additives which offer enhanced adhesion and flexibility. The coating forms a hard finish, seamless surface that act as a barrier to waterborne salts and atmospheric gases.

ADVANTAGES

- Easy to apply by brush, spray or flat trowel
- No additional water is required to make the slurry
- Pre-batched components with consistent quality
- Easy and fast mixing
- Highly water resistant, reduces saltpeter action and prevents carbonation
- Protects concrete from chloride penetration
- Non-corrosive to steel and iron
- Flexible enough to bridge hairline crack
- Bonds well to all damp substrates
- Good abrasion resistance
- Good adhesion to reinforced concrete, mortar or masonry
- Fast curing

APPLICATIONS

- Concrete, masonry
- Waterproofing treatment of roof, basement raft against rising dampness
- Roofs, terraces and damp patches on walls to seal joints through which there is a possibility of water ingress
- Underneath tile mortars in kitchens & toilets

APPLICATION METHOD

SURFACE PREPARATION

Prior to application of BONDFLEX 2K, all surfaces must be prepared properly to avoid failure. The surface shall be cleaned to remove all dust, foreign materials/loose particles or any deposits of contaminants, which could affect the bond between the original substrate and the BONDFLEX 2K system. This can be done by scarifying, grinding, water blasting, sand blasting, acid washing or any other approved method. Repair any cracks, honeycombed pockets or holes by PMC mortar.

Ensure to dampen walls for an hour before application and keep damp allowing moisture to soak in. Wet dense concrete at least twice, not less than 30 minutes apart. Surface must be damp during application. Do not allow standing water.

MIXING

Add total Component B into a suitable container containing and thereupon, add whole Component A slowly and mix with the help of paddle mixer at low speed (300 - 400 rpm). The mix has to be stirred thoroughly, until lump-free smooth slurry is obtained. Stand for 4-5 minutes after mixing to release air from the mix

APPLICATION

- All concrete surfaces (flat and vertical / inclined) shall be thoroughly pre-wetted to saturated surface dry condition; at the same time there should not be any standing water on the surface or it should not be too wet prior to application of BONDFLEX 2K.
- Apply BONDFLEX 2K on clean and dampen surface with brush, roller, trowel or spray.
- Apply second coat when the first coat is dry.
- It is recommended for good waterproofing, DFT should be 1 mm.
- After application of BONDFLEX 2K, initial air- drying shall be done for 3 - 6 hours. During this period, no water should be used for curing. If there is a chance of rain or hot (temperature above 40°C), windy atmospheric conditions within this period, protect the coating by covering with waterproof plastic sheet.
- When surface becomes hard enough, fog spray with clean water keeping waterproofed surface damp for 2 - 3 days. Hotter the weather, more critical the curing. Light spraying of water is recommended more frequently and for several days.
- After the moist curing the BONDFLEX 2K coating shall be allowed to air dry for 3 days before submersion in water

TECHNICAL DATA

PROPERTIES	VALUES
Form	Part A - Milky White Liquid Part B - Grey Powder
Nature	Two components, polymer modified, cementitious coating
Colour	Cement grey
Solid Content	> 54 %
Mixed Density	1.80 ± 0.03 gm/cc
Working Time	45 – 60 minutes
Pot Life	Min 45 minutes at 25° C

Complete curing time	7 days
Tensile Strength (ASTM D412)	2 ± 0.1
Shore Hardness A	90
Elongation (ASTM D412)	110 %
Crack bridging ability	1 mm
Shelf Life	12 Months

PACKING

(30kg. Packing)

Liquid – 10 kg

Powder – 20 kg

COVERAGE

The approximate coverage is 2.0 Kg/m² applied in 2 coats (DFT 1.2-1.5 mm) minimum.

STORAGE

Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

SHELF LIFE

12 Months from the date of manufacture when maintain in protected storage in original unopened sealed condition at 5 - 40°C.

SAFETY MEASURES

- Avoid contact with skin / eyes, and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

WARRANTY

Highbond Coatings Pvt Ltd warrants BONDFLEX 2K to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of BONDFLEX 2K.

Because the Highbond Coatings Pvt Ltd does not perform the actual installation, it cannot be held responsible for the results of the application. Highbond Coatings Pvt Ltd specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

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