



HIND HYDROLAST 2K

PRODUCT DATA SHEET

ACRYLIC POLYMER BASED CEMENTITIOUS COATING FOR WATER PROOFING.

DESCRIPTION

Hind Hydrolast 2K is a two component, elastomeric, flexible, acrylic polymer modified cementitious coating and when used as recommended, it forms an impermeable coating by sealing the capillaries and pores of the substrate of concrete. The flexible property of the product enables it to overcome thermal stress, expansion and contraction of the structures due to changes in weather. It conforms to **IS: 6582 & ASTM D 2370**.

USES

Hind Hydrolast 2K is recommended for use in all structures that required to be waterproofed and protected against the ingress of moisture, like Roof / Terrace, Basements, Water tanks, Swimming pools, Retaining Walls, Bridge walls, Tunnels, Sewage tanks, Reservoirs, Dams, Dock Gates etc. It can be reinforced with **Hind Fiber Glass** to enhance the dimensional stability of the structure.

ADVANTAGES

- Excellent adhesion to most building material.
- Low permeability hence protects concrete from water penetration, chloride and carbonation.
- Imparts chemical resistance to substrate.
- Reduces or prevents salt penetration into concrete
- Non toxic and can be used in water tank.
- Easy to apply by brush or spraying.
- Ready to use, addition of water not recommended.
- Flexible and Crack bridging.

METHOD OF APPLICATION

Mixing

Hind Hydrolast 2K is supplied in pre-measured packing. Entire quantity of **Pack B** to be mixed with **Pack A** and stirred manually or with a paddle mixer (450-500 rpm) for **4-5** minutes until a uniform grey coloured slurry is obtained. Allow to settle for 1-2 minutes for entrapped air to be released during mixing. To obtain a trowel able mortar consistency 90% content of **Pack A** to be mixed with entire quantity of **Pack B**.

Application

Before application the substrate must be sound, clean free from loose particles or laitance and preferably wire brushed. The surface to receive the coating is to be checked. If any cracks exist, it has to be repaired with trowel able mortar of **Hind Hydrolast 2K**. Undulation and depression to be filled and leveled to obtain even surface. The prepared surface must be thoroughly wetted with water and it has to be ensured that there is no standing water on the surface, before application of the coating. On the dampen surface for slurry consistency first coat of **Hind Hydrolast 2K** to be applied by brush or sprayed. On drying of the first coat after an interval of **4-5** hours second coat to be applied depending on the temperature and humidity. Addition of water to the prepared slurry of **Hind Hydrolast 2K** is not at all advised. It is recommended to apply two coats for waterproofing and damp proofing with layer thickness ranging between 1.5mm to 2.0 mm. For areas where there is severe leakages a third coat is recommended. For trowel able mortars use of notched trowel is to be done. The coated surface is not trafficable and needs to be protected with screed concrete mixed with **Hind Styrene BR (SBR Latex)** to prevent it from getting damaged.

Curing

It is very much essential, that cementitious based coating is cured properly for 3-4 days for ensuring proper hydration of cement and preventing from cracking. If possible we recommend curing for 7 days by water logging over the surface or keeping it covered with dampen used jute to obtain better result of the coating.

PROPERTIES

Aspect	Pack A :Milky White Liquid Pack B : Grey Powder Mixed Material : Cement Grey
Mixing Ratio	Pack A : Pack B :: 1 :3 (By weight)
Density	~ 2.00Kg/Ltr. at 27 ± 2^0 C
Corrosion Resistance (pH)	>6
Elongation at Break	~ 8-10% with Hind Fibre Glass
Compressive Strength at 27 ± 2^0 C	~ 2 N/mm ² in 3 days ~ 20 N/mm ² in 28 days
Pot Life	30-40 minutes at 27^0 C
Coverage	~ 1.5 Kg /m ² in two coats (First Coat) ~ 1 Sq.Mtr / Sq.Mtr (Hind Fibre Glass) ~ 1.5 Kg /m ² in two coats (Top Coat) Coverage is depending on the porosity and texture of the surface.
Thickness of Layer	1.5 - 2mm average thickness with Hind Fibre Glass.
Application Temperature	Substrate - 10^0 C (Min) / 40^0 C (Max.) Ambient Temperature - 10^0 C (Min) / 40^0 C (Max.)
Heat Resistance (ASTM C 1064-86)	Same as Concrete
Pull Out Bond Strength	Concrete - $2 \text{ N/mm}^2 \pm 0.2$ (Concrete Failure) as per ISO 4624 Metal - $2 \text{ N/mm}^2 \pm 0.3$ as per ISO 4624
Tensile Strength (ASTM D 638)	2 N/mm^2 after 14 days in exposed condition
Water Penetration (DIN: 1048 (P-5))	Nil
Service Life	Same as Concrete

SHELF LIFE

12 months from the date of manufacture in unopened condition. Should be stored in a cool and dry place away from direct sunlight.

PACKING

20 Kg Kit.

HANDLING PRECAUTION

Hind Hydrolast 2K is non-toxic and prolonged skin contact should to be avoided. In case of contact with eyes occurs wash with plenty of clean water and seek medical advice. Cleaning of tools is to be done with water.

Note:

- Hindcon Chemicals maintains a team of technically trained professionals to provide full support to your problems in construction, and recommend the correct product to suite your specific requirements. Our authorized applicators can attend your site for application of the products.
- The content of the Technical datasheet are for general information and guideline. The results shown here are generated from our laboratory or from our site experiences.
- Qualities of our products are maintained as per ISO9001:2008 recommendations and continuous researches. The behavior can change as per the prevailing conditions at the time of applications.
- Since **HINDCON CHEMICALS LIMITED** has no control over the use to which the users may put the material, it does not claim or warrant that in the user's particular circumstances, the result that the user will obtain from the product will be the same as those described in this communication or that the user will find the information or recommendations complete, accurate or useful. The client must test and ascertain the safety and fitness for the product for use.

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