HIND CRETE PLUS WPM (E) RTU

HIGH PERFORMANCE CRACK BRIDGING ACRYLIC POLYMER BASED ELASTOMERIC CEMENTITIOUS WATERPROOFING COATING SYSTEM

HINDCON CHEMICALS LTD.
STRENGTH UPON STRENGTH

DESCRIPTION

Hind Crete plus WPM (E) RTU is a two-component liquid applied, crack bridging, elastomeric waterproofing coating system based on modified acrylic polymer conforming to **ASTM D 412, ASTM C 836, ASTM C 1202- 97, ASTM D 2240, ASTM D 4541, & BS EN 12390**

USES

Hind Crete Plus WPM (E) RTU is used for surface waterproofing of roofs, podium, planter, toilets, basements, swimming pools, pits, sumps, water tanks. Used as waterproofing coating on concrete, screed, mortar, brick tiles, cement tiles, plaster or porous stone substrates etc. for providing a water impermeable membrane which is highly flexible and ultra violet resistant. It is suitable for structures of all type even those in sea water/coastal environments.

ADVANTAGES

- Highly flexible and thus has a crack bridging property.
- Resistant to ultra violet ray of sun.
- Good Impermeability against water ingress.
- Non toxic and can be used for any kind of structures.
- Allows concrete to breath and enables any entrapped vapour to escape.
- Coated surface develops Anti Root properties and is resistant to root penetration into concrete in Planters on Roof & Podium.
- Develops excellent bonding with building materials and arrests salt petre action.
- Provides an excellent barrier coat against Carbon -dioxide, sulphate and chloride ions.
- It remains unaffected when applied within a wide range of temperatures.
- Unaffected when exposed to wide range of chemicals.
- Highly durable membrane and has a long functional life.
- It has excellent adhesion to concrete, brickwork and corrugated asbestos cement sheets.

APPLICATION

Surface preparation

The surface should be cleaned from all loose materials, oil, grease, and washed properly. Any undulations, pot holes, wide cracks are to be properly mended with polymer cement mortar and sufficiently cured. Before the application of **Hind Crete Plus WPM (E) RTU** it is to be ensured that there is no stagnant water on the surface.

Mixing

Component A (Liquid part) of **Hind Crete Plus WPM (E) RTU** is to be poured in a plastic bucket or metal container. **Component B (Powder part)** is now to be added gradually in the ratio of **Comp A : Comp B - 1 : 1.5 (by weight)** and mixed for 2-4 minutes with a slow speed electrical mixer (500 -600 rpm) fitted with a stirrer. It has to be ensured that there is no lump formation while adding the powder part. Under normal circumstances, when the full quantities of both components are mixed together, a slurry consistency will result. For trowel able consistency use only 90% of **Comp. A**.

After uniform mixing **Hind Crete Plus WPM (E) RTU** is to be applied immediately. It is advised not to mix more material at a time so that it can be used within the pot life of the mixed material. The mixed material must be stirred at intervals at the time of application to avoid settling down.

Application

The surface to be dampen prior to application of **Hind Crete Plus WPM (E) RTU**. While the surface is still damp from saturation, apply the first coat and leave to harden for 2 to 5 hrs. For slurry consistency apply with a brush. For trowel able mortars use a notched trowel. The second coat to be applied after the first coat gets completely dry followed by rubbing down with a soft, dry sponge. Application of the mixed **Hind Crete Plus WPM (E) RTU** may be done by spray or

by hand using a brush, applied in the same direction. In case the coating is to be reinforced with glass fiber cloth , laying of **Hind Fiber Glass** over the first coat applied surface is to be done when the coating is still green and embed firmly into the wet coat with brush. The second coat of **Hind Crete Plus WPM (E) RTU** is applied by brush in opposite direction to the first coat as soon as it gets completely hardened.

Curing

Curing is essential for **Hind Crete Plus WPM (E) RTU** coated surface. As soon as the coated surface gets hardened (after second coat) curing is to be done for a minimum period of 3 to 5 days to ensure full cement hydration and minimize cracking. Use wet hessian cloth or similar approved methods.

Cleaning of Tools

Clean all tools and application equipment with clean water immediately after use. Hardened and/or cured material can only be removed mechanically.

PROPERTIES

Aspect	Comp. A – Milky White Liquid Comp. B – Specially Graded Powder
Mixing Ratio	Comp A : Comp B = 1 : 1.5 (by weight)
Appearance of Mixed Product	Grey
Density	1.6 Kg/Ltr. (Mixed Comp A + Comp B) at 27°C
Pot Life	30 minutes at 27°C
Adhesion Strength (ASTM D 4541)	2 N/mm²
Tensile Strength (ASTM D 412) (!-7 – 1.75 mm)	5 N/mm²
Elongation at Break (ASTM D 412)	Minimum 150%
Performance after Artificial Weathering (IS 101)	No Chalking or Cracking on the film developed when tested for 500 hours
Reduction of rapid chloride permeability % (Compared tp control) ASTM C 1202-97	92
Water Penetration (5 bar pressure) (BS EN 12390)	Nil
Crack Bridging (ASTM C 836)	No cracking upto 2 mm
Ambient Temperature	+10°C min. / +40°C max
Substrate Temperature	+10°C min. / +40°C max.
Hardness, Shore A (ASTM D 2240)	85
Waiting Time / Overcoating	Between consecutive coats **Substrate Temperature** — **Time** +30°C — ~ 2 to 6 hours If the waiting time period is more than 24 hours, lightly clean the surface
Consumption	**Approx 0.6 -0.7 Sq. Mtr/Kg in 2 coats at 1.5 mm DFT.** The consumption may vary depending on surface and absorption of the surface. All substrates should be in SSD condition prior to using **Hind Crete Plus WPM (E) RTU**

SHELF LIFE

12 months from the date of manufacture in unopened condition. Should be stored in a cool dry place away from direct sunlight, at temperature ranging between 2°C (Min.) and 50°C (Max.). Component A (Liquid part) should be protected from frost.

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PACKING

12.5 Kg Kit. Comp. A (Liquid Part) 5 Kg & Comp. B (Powder Part) 7.5 Kg
25 Kg Kit. Comp. A (Liquid Part) 10 Kg & Comp. B (Powder Part) 15 Kg

HANDLING PRECAUTIONS

Hind Crete Plus WPM (E) RTU is non toxic, prolonged skin contact should be avoided. In case of contact with eyes occurs wash with plenty of clean water and seek medical advice. The properties are based on laboratory conditions which may vary at site and in extreme weather conditions.

IMPORTANT NOTICE :

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 result shown here are generated from our laboratory or from our site experiences.

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