



HYDRO COAT

Polymer Based, Powdered, Single Pack, Waterproofing system with Anti Carbonation Inhibiting Properties

Dubond's Hydro Coat is one pack, flexible, cement-based capillary waterproofing with carbonation inhibiting properties. It adheres to all types of surface which provides a solution to leakage, seepage or ingress of water / moisture in concrete by sealing capillaries and shrinkage cracks in both positive and negative side of the structure. Hydro coat penetrates into pores of substrate by capillary action and is channelled to the lower depths of concrete by inherent moisture therein, including those occurring even in the smallest pores and capillaries. Hydro Coat reacts with moisture and creates a continuous barrier of insoluble minerals as the product consists of high strength binders, selected silicon / quartz mineral charges with synthetic fibers and specific additives. The capillaries are permanently blocked to the passage of water. However, vapour may pass through allowing structure to breathe. Rate and penetration of minerals depends on presence of moisture, free lime and density of concrete.



Green Building Rating



Mineral \geq 30%



Low Emission



Low Ecological Impact



Health Care



Water Based

Areas of Application

- Water retaining structures and containment walls.
- Walls & Floors of bathroom and toilets or places where there is a lot of moisture before the laying of ceramic wall tiles.
- Basements, tunnels, machine pits, reservoirs, concrete walls, terraces, balconies, prior to fixing ceramic tiles particularly suitable for raised floors.
- Restoring the waterproofing properties to old terraces without demolishing the existing floor surface.
- Leveling cracked plaster or concrete.



Features & Benefits

- Becomes an integral part of the concrete structures instead of merely being a surface coating or membrane that can damage or delaminate.
- Can be used on all type of substrates
- Does not require special protection during back filling, placement of reinforcement or other procedures necessary to protect a surface type waterproofing systems.
- Penetrates deep into the capillary tracts and shrinkage cracks and can seal both positive and negative side of concrete structure.
- Protects against water borne corrosive chemicals that can cause corrosion of reinforcement.
- Non-reacted chemicals remain active and will react in contact with water providing additional protection against leakage.
- With stand high and low temperature
- Vapour permeability.
- Very flexible.
- Does not age.



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Method of Application

- Ensure that structure is sound and free from dirt, soil, oil release agents, laitance and any other foreign materials which may impair the bond, penetration and/ or the overall performance of Hydro Coat.
- In case of smooth concrete surface, the surface should be water cleaned / sand blasted or acid etched to ensure that the concrete surface has an open capillary system.
- Ensure to fill cracks / honeycombs / holes / faulty construction joints with Dubond Acrylic Crack Filler and allow it to touch dry.
- Ensure to hydroprime the surface before applying Hydro Coat to facilitate maximum chemical penetration.
- Use the wire brush to scrub out the loose particles and blow it out to make it dust free before the application of Hydro prime. Take 1 liter of Hydroprime with 100% dilution (ie 1 liter of water) and apply 2 coats at the interval of 4 hours gap time between both coats.
- Add 4 – 4.5 Ltrs of water with 10 Kgs of Hydro Coat, stir the mix thoroughly to form slurry and apply, in specified quantities, by stiff bristle brush or squeegee. Ensure to prepare only as much amount of slurry as can be applied during its pot time i.e. 20 minutes. (can add or reduce water as per the site conditions)
- Ensure the desired thickness in each coat of application.
- For horizontal surface apply in one coat while for vertical surface apply in two coats. Apply second coat when first coat is touch-dry. Glass fiber mesh can be used as a sandwich between the layers of coat as reinforcement system which ensures tight bonding to restrain from the hydrostatic pressure.
- Light spray of water may be required between coats in hot/ dry climates.
- In extreme hot weather and very low humidity conditions, ensure curing as soon as the Hydro Coat coating has hardened sufficiently.
- After 36 – 48 hours of the application of 2 coats ponding can be done to the satisfaction of the engineer for the final testing of waterproofing. Recommended for 3 to 4 days.

Precautions & Limitations

- Do not use any type of chemical or solvent for the dilution or making the slurry of Hydro Coat.
- Only potable water is recommended for the best of the result.

Technical Information

| | | |
|---|----------------------------|-------------|
| Appearance | White powder | |
| Mineralogical nature | Silicate – Quartz minerals | |
| Mixing water | | |
| Application with spreader | 4 liters / bag 10 kg | |
| Application with brush | 5 liters / bag 10 kg | |
| Mixture spread | 85% | |
| Specific weight | 1.73 Kg / dm ³ | |
| pH | ≥10 | |
| Pot Life | 1 Hour | |
| Temperature range of application | from +5 °C to +35 °C | |
| Waiting time | | |
| For laying of covering material | 24 hours | |
| For application of rough coat | 24 hours | |
| Containment of drinking water | Suitable | |
| Adhesion to concrete after 28 days | ≥3 N/mm ² | EN 1542 |
| Compressive strength after 28 days | ≥25 N/mm ² | EN 196/I |
| Resistance to abrasion resistance after | ≤3 g | ASTM D 4060 |
| Resistance to sulphates (penetration) | Nil | |
| Resistance to Chloride (penetration) | Nil | |

Coverage

Horizontal : 1.4 – 1.6 Kg / m² per brush coat

Vertical : 0.7 – 0.8 Kg / m² per brush coat

Packing

1 Kg, 5 kg & 10 Kg Bag.

Shelf Life & Storage

6 months in original unopened sealed condition.

Health & Safety Precautions

- Use mask, nose cover and hand gloves during application.
- Clean hands with soap water after application.
- Avoid contact with skin / eyes. In case of unlikely contact with eyes, rinse immediately with plenty of clean water, then cleanse with soap and lukewarm water and seek medical advice.
- Do not use solvent to clean the contacted area.
- In case of unlikely swallowing, seek medical attention immediately.
- Do not induce vomiting.

DISCLAIMER The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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