



ACRYLIC CEMENTITIOUS WATERPROOFING COATING

Description

Dr. Fixit Hydrocem is an acrylic cementitious, polymer modified elastomeric, waterproofing & protective coating composed of best quality Portland cement, properly selected & graded aggregates, additives & acrylic emulsion polymer as a binder. It is applied to waterproof and protect concrete and masonry substrates.

Areas of Application

Hydrocem must be applied to new or old concrete substrates that are structurally sound.

- Excellent as a waterproof coating for bathrooms, kitchen sinks, balconies, etc.
- Ideal as a coating for waterproofing of chhajjas, canopies, etc.
- As waterproof coating on internal sides of domestic water tanks.
- Good for waterproofing of sloped roofs.
- As a waterproof coating for terraces of areas up to 150 m²

Features & Benefits

- Elastomeric - flexible coating that accommodate cracks up to 1 mm with an elasticity up to 50%
- Low water permeability - Excellent resistance to ingress of water
- Adhesion - Excellent adhesion to concrete and masonry surfaces
- Eco-friendly - Non-toxic with low VOC content
- CFTRI certified - As a "potable water safe" coating for waterproofing for water tanks

Method of Application

1 SURFACE PREPARATION

- The surface of application must be thoroughly prepared by mechanical means, to remove all loose particles, laitance, etc
- Oil and grease, if any, must be de-greased with suitable solvents. It then must be washed off with jet of water and brought to touch dry state. Any surface undulations, cracks and crevices must be duly filled or repaired with cement sand mortar mixed with latex polymers such as Dr. Fixit Pidicrete URP/ Dr. Fixit Pidicrete MPB.
- All vertical up-stands & junctions /corners are provided with 45° fillet with Polymer Modified Mortar (PMM), mixed with Dr. Fixit Pidicrete URP all around the periphery of the junction.
- Substrate must be in a "Saturated Surface Dry" (SSD) condition (damp, without standing water) prior to application.

2 MIXING

- Shake the liquid component well to a homogenous milky colour.
- Use heavy duty slow speed mechanical mixer fitted with a suitable paddle for mixing the two components of the material.
- In a mixing vessel, slowly add the powder component in to the liquid under continuous stirring. Continue to stir thoroughly to achieve a lump free homogenous slurry

3 APPLICATION

- It is important that any pipe inserts or sanitary fittings should have been fitted grouted with suitable products from the Dr. Fixit range well before taking up the application.
- To grout pipe inserts, use Dr. Fixit Pidigrout 10M, non-shrink, flow applied cementitious grout to gaps around the pipes. Water pipes however will be best grouted by filling with polymer modified mortar prepared with Dr. Fixit Pidicrete URP/ MPB.
- It is mandatory that all works of plumbing and sanitation must be complete before taking up application of Hydrocem.
- The surface of application must be pre-wetted thoroughly with water & brought to a touch dry state. Take up the first coat application with a stiff nylon brush. Work well into the substrate, to ensure that all small undulations are completely filled with the coating.
- Provide and lay 45-50 gsm glass fibre mesh over the angle fillet when the first coat is still wet.



- 6 to 8 hrs after completion of first coat, take up second coat application in a direction perpendicular to the first
- Complete the application and leave to air cure for 3-5 days. A moist hessian cloth can be kept over the coated surface to protect it from the effect of direct sunlight, in case of bathrooms and internal areas, leave the coating without water curing for 3-5 days at least.
- In new bathrooms, typically, Dr. Fixit Hydrocem must be applied all over the sunken slab portion and upwards over the masonry walls up to a height of 6-7 feet, i.e. Over the splash zone of shower, etc. to ensure complete waterproofing.
- For vertical walls in bathroom ensure internal plaster with Dr. Fixit Pidiproof LW+, Apply 2 coats of Dr. Fixit Hydrocem on all over or shower area, sprinkle the coarse, quartz sand while the second coat is still wet. This will provide key for subsequent tile adhesive materials.

Precautions & Limitations

- Do not part mix. Mix the entire quantity of both the components at one go.
- Do not dilute.
- Always add powder to liquid to avoid lump formation.
- Do not cure by flooding with water.
- Dr. Fixit Hydrocem needs atleast 3-5 days for air curing. Water cure the coating by placing moist hessian cloth, if the coating is exposed to direct sunlight.
- Do not conduct any ponding test before it is completely cured for 3-5 days
- Always protect the membrane with screed in areas exposed to foot and other traffic.
- Concrete surfaces must be cured for 28 days before application.
- Additionally, for Bathrooms/Wet areas etc. The waterproofing coating should be done on levelled surface and not directly over bricks/blocks walls. The brick/block surface and joints should be levelled with thin coat of polymer modified mortar. The concealed plumbing/electrical conduits area should be cleaned and packed appropriately with Polymer Modified Mortar.

Technical Information

PROPERTIES	TEST METHOD	RESULTS
Nature & Mixing ratio	...	2 component cementitious coating (1 part polymer & 2 part powder)
pH of the mix	...	>10.0
Pot life of the mix @30°C	...	40 minutes
Touch Dry Time	ASTM D 1640:2018	60 minutes
Elongation at break	ASTM D 412:2016	50% minimum
Crack bridging	EN 1062-7:2004	No cracking upto 1 mm
Water Permeability	EN 12390-8:2019	Passes 5 bar positive water pressure
Food grade certification	CFTRI certification	Passes

Theoretical Coverage*

The approximate coverage per pack at even consistency (DFT of 1 mm thickness) is as follows:

SKU	COVERAGE
30 kg polymer +60 kg Powder	49.5-52 m ²

*Coverage may vary depending upon the nature and texture of the substrate



Packing

90 kg (Powder 60 kg & Liquid 30 kg)

Shelf Life & Storage

- Shelf life is 12 months from the date of manufacturing.
- Store in shed, protecting from direct sunlight and away from extreme temperature.
- In extremely hot temperature conditions, store in a temperature-controlled environment i.e. less than 30°C

Health & Safety Precautions

- Hydrocem is alkaline and should not come into contact with skin or eyes.
- Avoid inhalation of dust during mixing.
- Gloves, goggles and dust masks should be worn, during mixing and handling the product.
- Any contact to eyes should be washed immediately with clean water and seek medical advice.

Other Products Categories available

Dr. Fixit brings you the widest range of Construction Chemicals



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