

HIGH PERFORMANCE POLYMER MODIFIED CEMENTITIOUS COATING

Description

Dr. Fixit Fastflex is a two component acrylic cementitious coating system for waterproofing of wet areas and any water retaining structures such as swimming pools and water features. It provides strong bonding and excellent resistant to hydrostatic water pressure by forming highly elastic seamless coating over the applied concrete surfaces.

Areas of Application

- Any concrete, cement or masonry surface that are subject to moisture ingress.
- Swimming pools, water features and water tanks.
- Flat and sloped roof and terraces, toilets, balconies, planters etc.

Features & Benefits

- Seamless, impervious membrane.
- Elastomeric.
- High film build-up.
- Excellent adhesion to concrete and masonry substrates.
- Low VOC.
- Easily applied by brush, roller or trowel.
- Can be applied on damp surfaces.

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.
- 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

- Using a slow speed mechanical mixer and a clean suitable mixing vessel, slowly add the powder component to the liquid polymer and stir until a smooth and homogenous slurry, is achieved.
- Allow the mixed slurry to stand for 5 - 10 minutes before use.
- Do not dilute with water.

3 APPLICATION

- All the pipe inserts or sanitary fittings should have been fitted grouted with suitable products from the Dr. Fixit range well before taking up the application.
- 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 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.
- For vertical walls in bathroom ensure internal plaster is sound, levelled and mixed with Dr. Fixit Pidiproof LW+, Apply 2 coats of Dr. Fixit Fastflex on all over or shower area, sprinkle the coarse, quartz sand while the second coat is still wet or apply a spatter dash bond coat..This will provide key for subsequent tile adhesive materials.

4 WATERPROOFING OF ROOF AND WATERTANKS

- General waterproofing if applied in areas exposed to foot traffic, it must be protected with a screed overlaid, during the application itself.
- When coating for internal walls of water tanks, sprinkle coarse sand after second coat on wet coating to facilitate anchoring for upcoming protection plaster.

5 WATERPROOFING OF SWIMMING POOLS

- Apply Dr. Fixit Fastflex in 3 coats with each coat perpendicular direction to previous applied at the 6-8 hours interval at 3Kg/M² coverage.
- Extend the coating up to the full height of internal RCC walls. While the third coat is still wet and tacky sprinkle/ broadcast coarse sand over the surface to make it rough to provide mechanical key for plastering.

Precautions & Limitations

- Do not add water to Dr. Fixit Fastflex during application.
- Dr. Fixit Fastflex needs atleast 3-5 days days for air curing. Water cure the coating by placing moist hessian cloth, if the coating is exposed to direct sunlight.
- Do not cure by flooding with water or conduct any ponding test before it gets completely cured.
- Concrete & masonry surfaces must be cured for 28 days before application.
- Overlay of a cementitious screed must be done within 24 to 48 hrs after curing.
- 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 & 1.4 part powder)
pH of the mix	...	>10.0
Pot life of the mix @30°C	...	60 minutes
Touch Dry Time	ASTM D 1640:2018	50 minutes
Inter coat application time	...	6-8 hrs
Cure time after 2 nd coat	...	3-5 days
Elongation at break	ASTM D 412:2016	120% minimum
Tensile Strength	ASTM D 412:2016	1.0 N/mm ²
Water Vapour Transmission	ASTM E 96:2016	0.7 Perms
Adhesion strength	ASTM D 7234:2019	1.0 N/mm ²

Crack bridging	EN 1062-7:2004	No cracking upto 2 mm
Water Permeability	EN 12390-8:2019	Passes 5 bar positive water pressure
Reduction in Rapid Chloride, %	ASTM C 1202:2019	70
Food grade certification	CFTRI certification	Passes

Theoretical Coverage*

The approximate coverage is 4.5-5.5 Sqft/Kg applied in 2 coats (DFT 1.2-1.5 min). The per pack coverage is as follows:

SKU	COVERAGE
5 kg polymer + 7 kg Powder	5-6 m ²
20 kg polymer + 28 kg Powder	20-24 m ²

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

Packaging

12 kg and 48 kg

Shelf Life & Storage

Shelf life is 12 months from the date of manufacturing if stored in original and unopened packaging in a cool dry place away from direct sunlight.

Health & Safety Precautions

This product is a water based emulsion of non-hazardous polymer. It is nonflammable and essentially non toxic. Normal industrial hygiene procedures should be adhered to particularly when spraying and it is recommended that gloves and eye protection be worn. In case of skin or eye contact thoroughly irrigate with water and seek medical advice if any irritation develops or persists. In the case of accidental ingestion, wash mouth out with water and seek medical attention. Spillages should be cleaned up immediately with water as they will leave a film on evaporation. See MSDS for further information.

Other Products Categories available

Dr. Fixit brings you the widest range of Construction Chemicals



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