Dr. Fixit Fastflex Ultra

TWO COMPONENT, HIGHLY FLEXIBLE CEMENTITIOUS COATING

Description

Dr. Fixit Fastflex Ultra is a two-component acrylic polymer modified cementitious product, consisting of Part A liquid) and Part B (powder) when yields a flexible waterproofing coating with excellent water resistance and crack-bridging capability.

Areas of Application

Dr. Fixit Fastflex Ultra is recommended as a waterproofing membrane below concrete, mortar, tiles etc. Typical applications include:

- Wet areas, Bathrooms and kitchens.
- Flat and Pitched Roofs.
- Terraces and balconies.
- Swimming pools.
- Water tanks, sumps and reservoirs.
- For trafficable area application, it is advisable to protect the cured membrane of Dr. Fixit Fastflex Ultra by covering with protective screed or tiles.

Features & Benefits

- High polymer solids ensuring excellent barrier properties.
- Enhanced Rheology: Enables roller application, leading to time saving with easy and faster application
- Flexible: accommodates and bridges cracks >1.5mm when subject to normal building movements including hairline cracks.
- Permeable to water vapours: Allows surface to breath and water vapour to escape from the substrate.
- Resists both positive and negative hydrostatic pressure.
- Excellent bond to concrete, masonry surfaces.
- Nontoxic: Can be safely used as internal waterproofing of potable 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.
- 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/roller. 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 in still wet or use Dr. Fixit Corner Joint Tape and Pipe collars embedded between the 2 coats.
- 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 for air 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 Ultra on all over shower area, and upon curing apply a spatter dash bond coat, this will provide key for subsequent plaster or tile adhesive.

4 WATERPROOFING OF ROOF AND WATERTANKS:

- General waterproofing if applied in areas exposed to foot traffic must be protected with a screed overlaid, during the application itself.
- When coating for internal walls of water tanks, apply a spatter dash bond coat. This will facilitate anchoring for subsequent plaster.

5 WATERPROOFING OF SWIMMING POOLS:

- Apply Dr. Fixit Fastflex Ultra 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 or dilute Dr. Fixit Fastflex Ultra during application.
- Do not do part mixing, mix complete pack.
- Dr. Fixit Fastflex Ultra needs at least 3-5 days for curing.
- 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. For the application over brick/block/RCC walls, refer detailed application methodology.

Technical Information

PROPERTY	TEST METHOD	RESULTS
Nature & Mixing Ratio	Internal	2 component cementitious coating (1 part polymer & 1.2-part powder)
Mix Density @30 degC	Internal	1.55 +/- 0.1
Pot life of Mix @30 degC	Internal	60 minutes
Touch Dry Time	Internal	60 minutes
Intercoat application time	Internal	6-8 hrs
Elongation at break	ASTM D412: 2016	>200%
Tensile Strength	ASTM D412: 2016	>1.5MPa

Water Vapour Transmission	ASTM E96: 2022	22.6 g/m²/day
Adhesion Strength	ASTM D 7234:2019	>1.2 MPa
Water Permeability	EN 12390-8:2019	Passes 5 bar Positive pressure
Food Grade Certification	Tested at CFTRI as per US FDA CFR 175.300	Passes
Crack Bridging Ability	EN 1062 – 7 : 2004 (Method A*)	A4#

#width of the crack bridged >1250µm
* Tested under room temperature for one cycle
Note: Technical Data is based on laboratory tests under controlled conditions. Actual performance may vary due to substrate, environment, application method, and equipment accuracy.

Theoretical Coverage*:

The approximate coverage is 2-2.2 Kg/sqm applied in 2 coats (DFT min.1 mm). The per pack coverage is as follows:.

PACK	COVERAGE
5Kg Polymer + 6Kg Powder	Approx. 5.0 - 5.5 m²
20Kg Polymer + 24Kg Powder	Approx. 20-22 m²

Sprayable using rotor-stator, rotoflex, or low-pressure piston pumps. For equipment guidance, contact our technical team.

Packaging

11 Kg & 44 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 between 5°C and 30°C. The product should be protected from frost, sources of heat and away from direct sunlight.

Health & Safety Precautions

This product is a water-based emulsion of non-hazardous polymer. It is non-flammable and essentially non-toxic. Normal industrial hygiene procedures should be adhered, 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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