

SINGLE COMPONENT, WATER BASED HYBRID POLYURETHANE COATING

Description

Dr. Fixit Unithane HB is a single component, UV stable, water based hybrid polyurethane protective and waterproofing coating free from tar and pitch. It is modified with dispersable PU polymers to give a tough, flexible and durable coating.

Typical Applications

- o Waterproofing of Rooftops, Balconies and Terraces
- o Suitable waterproofing for aluminum sandwich panels and corrugated galvanized sheets.
- o Protection of polyurethane foam insulation
- o Waterproofing of wet areas like bathrooms, showers etc.
- o Protective coating for exterior concrete surfaces and facades.

Features

- o No Odour - Water based.
- o Ready to use material, easily applied by brush and roller.
- o Breathable
- o Dirt resistance, easy to clean.
- o Elastomeric & crack bridging ability
- o Excellent adhesions to a variety of substrates
- o Excellent UV resistance and durability.

Packaging

20 kg Pail

Method of Application

1 SURFACE PREPARATION

- o All substrates must be sound, stable and free of dust, dirt, oil and any other contaminants which may impair adhesion.
- o Any spalled or damaged concrete, cracks and other surface defects must be repaired using a suitable Dr.Fixit Repair material.
- o All penetrations through the roof such as pipework or ducting must be sealed using a suitable approved sealant or expanding foam filler.
- o All cracks, corner joints, intersections, floor and wall junctions, overlaps and J hooks in metal roofs must be reinforced using a suitable reinforcing fabric set into first coat of Dr.Fixit Unithane HB.

2 PRIMING

- o Sound surface generally does not require priming, however highly absorbent and porous substrates should be primed using one coat of Dr.Fixit Unithane HB mixed with water in ratio 1:1 and applied at 4-5 m²/kg. The prime coat should be allowed to dry for a minimum of 4 - 5 hours before subsequent coating.



3 APPLICATION

- o Stir well before application and usage, to a homogeneous consistency. A slow speed drill and suitable paddle mixer shall be used to avoid the formation of air bubbles.
- o Apply Dr.Fixit Unithane HB at a coverage of 0.85 kg/sqm with suitable roller, brush or airless spray at 600-650 Microns WFT to achieve 300 - 350 microns DFT (Dry film thickness)]
- o Allow first coat to dry for 6 - 8 hours prior to second coat depending upon the temperature and humidity.
- o Apply second coat of Dr.Fixit Unithane HB which should be applied similarly as first coat in perpendicular direction of first coat to achieve total DFT of 600 - 650 microns DFT (Dry Film Thickness).

Note:

- o For waterproofing areas, it is recommended to reinforce all corners with a suitable reinforcing fabric strip. The reinforcing strip shall be embedded into the first coat whilst it is still wet and covered fully with the second coat.
- o Only to be diluted with water when using as a primer.

Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Colour		Grey / White
Form		Viscous
Liquid Density g/cc	ASTM D 1475	1.30 ± 0.02
Solid content, % by wt	ASTM D 1644	65 ± 3%
Water permeability	BS EN 12390 - 8	No leakage
Elongation %	ASTM D 412	>200
Tensile strength N/mm ²	ASTM D 412	>1.0
Crack bridging, mm	ASTM C 1305	1.5
UV resistance @ 100 Hours	ASTM G 154	Passes
SRI value (Solar Reflective Index)	ASTM E 1980:01	≥ 80 for White colour
Application temperature		10° C to 45°C
VOC Content		< 1 g/Ltr

Theoretical Coverage

0.85 kg/sqm/coat @ 300-350 μ DFT

Actual coverage may vary according to the substrate porosity and texture, wastage factors, site and application conditions etc.

Storage

When stored in dry conditions in original unopened packaging this product has a shelf life of 12 months. Storage above 35°C and high humidity (above 50%) will reduce shelf life and product performance.

Health and Safety

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 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.

Pidilite MEA Chemicals L.L.C offers a wide range of Structural Protection and Waterproofing systems:



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