



POLYMER MODIFIED CEMENTITIOUS WATERPROOFING MEMBRANE

Description

Dr. Fixit Unicem 3.1 is a two component acrylic co-polymer based flexible cementitious waterproofing system.

Typical Applications

- Waterproofing in roof and balconies
- Waterproof lining for concrete water tank
- Wet areas like showers, bathrooms floor and walls.
- Back coating of natural stone and mineral based cladding

Features

- Non toxic, suitable for use in potable water tank
- Easy to apply
- Flexible with crack bridging ability
- Protection against carbonation & chlorides
- Excellent adhesion
- Excellent damp proofing for basement and foundation walls
- Seamless, high quality waterproofing performance
- Environmentally friendly.

Packaging

20 kg set: 15 kg Powder in paper bag & 5kg Liquid in can.

Method of Application

1 SURFACE PREPARATION

- All construction contaminants such as loose particles, curing compound and paint must also be removed which affects the bonding and performance of waterproofing membrane.
 - Oil and grease, mould release agents if any, must be removed with suitable solvents and washed off with jet water.
 - Laitance will be removed together with minor surface contamination by vacuum /scrabbling/shot blasting/diamond grinding equipment.
 - The surface should be roughened by chipping, grinding or other mechanical means to assure bond of the waterproofing membrane to the existing concrete.
 - Any surface undulations, cracks, crevices must be dully filled and repaired with cement sand mortar mixed with latex polymers such as Dr Fixit Latex or Dr Fixit PVA Bond.
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2 PRIMING:

- Primer is not required for above prepared surface however a weak, dusty and porous substrates should be treated with penetrating primer.
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3 MIXING:

- Dr. Fixit Unicem 3.1 is supplied in two component units made up of a 15 kg Powder and 5 kg liquid component. The entire contents of the liquid component will be decanted into a suitably sized mixing vessel and the entire contents of the powder component added evenly with mixing with a slow speed electric mixer for 2-3 minutes until a homogenous mix is obtained.



4 APPLICATION

- o Saturate the concrete surface with water 1 - 2 hrs prior to application and allow to surface dry.
- o Apply Dr. Fixit Unicem 3.1 using stiff bristle brush or roller. Allow to dry for 6 - 8 hours. Apply second coat in perpendicular direction of first coat to achieve 1 - 2 mm total DFT.
- o It is recommended to use fibre mesh reinforcement at critical areas and at all intersections of corner joints, floor / walls junctions, gaps, before the application of waterproofing membrane to ensure better waterproofing.

Note:

- o Prevent from rain until fully cured.
- o Do not apply Dr. Fixit Unicem 3.1 over expansion or moving joints.

Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Colour		Grey & White
Mix Density		1.80 ± 0.05.
Recoat time		6 - 8 hrs
Water permeability @ 5bar (50m)	BS EN 12390-8	No leakage
Elongation %	ASTM D412	40 % max (Free film)
Tensile strength N/mm ²	ASTM D412	≥ 1.0
Crack bridging ability	ASTM C 1305	No cracks@ 1.0 mm width
Bond Strength , N/mm ²	ASTM D4541	≥ 1.0
Solar Reflective Index	ASTM E1980-11	> 78 (white colour)
Toxicity	BS 6920:Part 1:2000	Non toxic
Full cure		7 days
VOC Content, g/L	Max allowable 140 g/L	< 1 g/L

*Note: the above technical information is based on controlled laboratory conditions. All values given are subject to 5-10% tolerance

Theoretical Coverage

2 kg/m²/mm. Recommended 2 coats application.

Curing

Dr. Fixit Unicem 3.1 will be cured for 7 days minimum prior to any water pond testing. During high temperature and wind conditions, Dr. Fixit Unicem 3.1 once dried, needs 3-4 days moist curing.

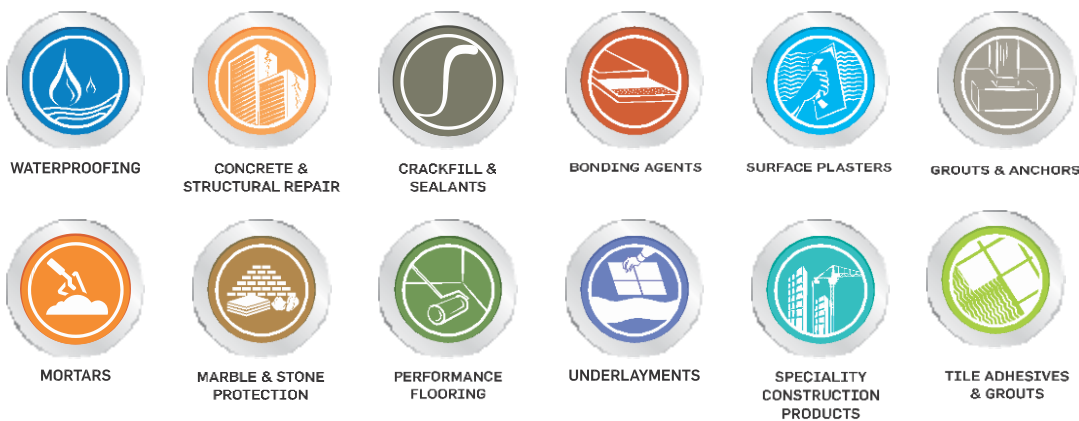
Storage

When stored in dry conditions out of sunlight in original unopened packaging this product has a shelf life of 12 months. Storage above 35°C will reduce shelf life and product performance

Health and Safety

This product contains cement, and contact with the skin can cause irritation. It should not be inhaled, and a properly designed and maintained face mask should be used whilst handling, pouring and mixing. Avoid contact with the mixed product by working carefully, using barrier and wearing protective gloves. In the event of skin contact, wash immediately and thoroughly with clean water. Avoid contact with eyes, use eye protection. If contact with eyes occurs, irrigate with water 20 minutes and seek medical advice. Do not ingest, if mistakenly ingested, drink plenty of clean water and seek medical advice. See MSDS for further information.

DR. FIXIT offers a wide range of Structural Protection and Waterproofing systems:



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