

Brushbond UltraFlex

High Performance & Ultra flexible polymer modified elastomeric waterproofing membrane system for concrete and masonry surfaces.

Uses

Brushbond UltraFlex, when fully cured, provides a seamless Elastomeric waterproof membrane for use in roof areas, wet areas, bathroom, water tanks, swimming pools, reservoirs, pre-cast joints where a tough elastomeric water tight membrane is required

Advantages

- Low VOC.
- Can be applied to damp substrates.
- No primer required.
- Elastomeric - able to bridge cracks
- Able to take foot traffic when cured.
- Factory pre-blended two component system ensure quality control at site control.

Description

Brushbond UltraFlex is a two component polymer modified waterproof membrane which is supplied in readymix kits. When mixed, an easily brushable coating is produced. It can simply be applied by a stiff brush, roller, or trowel to obtain the desired thickness.

Brushbond UltraFlex consists of specially selected cements, graded hard wearing aggregates and additives supplied in powder form together with a liquid component of polymers providing exceptional adhesion, resiliency, flexibility, toughness and durability.

Standards compliance

Brushbond UltraFlex conforms to the requirements of:

- DIN 1048, Part 5, 1991
- ISO 7783:2018
- ASTM D412 : 2013
- Brushbond UltraFlex is deemed to be suitable for use with potable water sources as tested as per USFDA CFR 175-300

Technical Support

Fosroc offers a comprehensive range of high performance high quality, construction products. In addition to a wide range of quality products, Fosroc offers a technical support package to specifiers and contractors which includes assistance with product selection and technical advice from staff with unrivalled experience in the industry.

Properties

Pot life at 27°C	Approx. 1.0 hr:
Adhesion to substrate (ASTM D4541:2002)	> 1 MPa
Shore A hardness (ASTM D2240:2010)	79
Tensile strength N/mm ² (ASTM D412-2013)	>1.5 M.Pa
Mixed Density @ 27°C	1.60 ± 0.1 g/cc
Rapid Chloride Permeability (ASTM C1202)	very low
Migration test (CFR 175-300 of US FDA)	Pass
Elongation at break (ASTM D412-2013)	≥175%
Water Permeability EN12390 (part8) 2008) Negative Pressure	Nil
Water vapour transmission (ISO 7783:2018)	~20.81 g/m ² .hr
Crack bridging ability (ASTM C1305 Modified*)	≥1.5mm
Foot traffic*	6 hr +/- 1 hr

Note: The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field-applied samples may vary, dependent on actual site conditions.

*Static, 1 cycle, 27 deg C, Rate of extension - 0.5mm/min.

Application Instructions

Preparation

All surfaces which are to receive Brushbond UltraFlex coating, must be free from oil, grease, wax, dirt or any other form of foreign matter which might effect adhesion. Spalled and deeply disintegrated concrete should be removed to sound concrete and repaired with Renderoc System.

Mixing

The Brushbond UltraFlex Liquid concentrate is poured from the plastic container into the metal drum supplied and mixed mechanically with a slow speed drill (350-450 rpm) fitted with a Fosroc Mixing Paddle (MR3). Add the powder component gradually to the liquid avoiding lump formation and mix for 4-5 minutes until a smooth consistent mix is achieved. Use the material within the recommended pot life.

Application

For best results damp the surface before coating with Brushbond UltraFlex. Use a short, stiff bristle brush preferably 120 to 200 mm in width. Apply like a paint using one or two coats as required. For trowel application, ensure that the substrate is levelled and repaired of any undulations or pot holes. Spray application should be carried out using the Graco make TEXSPRAY RTX5500px/ ToughTek F800e/similar make.

Brushbond UltraFlex

It is recommended that general re-surfacing and areas subjected to light foot traffic should receive Brushbond UltraFlex in two coats of 500 µm (microns) each to give a 1mm wet film thickness and 0.8mm Dry film thickness (1.6kg/sq.m).

Additional coatings may be required for a water retaining structures like swimming pool, water storage tank covered with plaster/tiles.

Cleaning

Brushbond UltraFlex should be removed from tools and equipment immediately after use with clean water. Hardened material can only be removed mechanically.

Estimating

Supply

Powder : 15 kg

Liquid : 10 kg

Brushbond UltraFlex Total : 25 kg

Coverage

One 25kg pack covers approximately 15 to 16 sq.m at about 1.0mm wet film thickness and 0.8mm DFT depending on surface conditions and water usage.

Note : A minimum coverage of 1.6kg/m² applied in not less than 2 coats is recommended. For vertical applications, the required thickness might need to be built in 3 coats based on surface roughness.

Storage

Brushbond UltraFlex has a shelf life of 12 months in unopened pack, kept in a dry store. In high humidity locations, the shelf life may be reduced to 9 months.

Precautions

Health and safety

Brushbond UltraFlex is non-toxic but it is alkaline in nature. Gloves and goggles should be worn. Any splashes to the skin or eyes should be washed off with plenty of clean water. In the event of prolonged irritation, seek medical advice. Powder products should be handled to minimise dust formation. Use a light mask if excessive dust is unavoidable.

Fire

Brushbond UltraFlex components are non-flammable.



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Important note :

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