

## High-technology polymer modified elastomeric waterproofing membrane system for concrete and masonry surfaces

### Uses

Brushbond FLXIII when fully cured, provides a seamless elastic waterproof membrane for use in roof areas, wet areas, pre-cast joints where a tough elastomeric water tight membrane is required.

### Advantages

- 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

### Description

Brushbond FLXIII 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 FLXIII 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 FLXIII conforms to the requirements of:

BS6920 : 2000

### Properties

<b>Pot life at 35°C</b>	: Approx. 1 hour
<b>Adhesion to substrate (ASTM D4541:1989)</b>	: 1 N/mm <sup>2</sup>
<b>Shore A hardness (ASTM D2240:1997)</b>	: 62
<b>Tensile strength (N/mm<sup>2</sup>) (ASTM D412-91)</b>	: 0.9 N/mm <sup>2</sup>
<b>Elongation at break (ASTM D412-91)</b>	: 127%
<b>Water Permeability (DIN 1048:Pt 5: 1991)</b>	: Nil
<b>Water vapour transmission (ASTM E96:1995)</b>	: 0.632 g/hr-m <sup>2</sup>
<b>Crack bridging (ASTM C836)</b>	: Passed up to 1mm
<b>Low Temperature Flexibility (ASTM C 765:1993)</b>	: Passed
<b>Setting time *</b>	
- Foot traffic	: 4 hrs + 1 hr
- Light vehicle	: 24 hrs + 3 hrs

**Note\*:** On clean dry concrete, with adequate airflow (ventilation) at 25°C to 35°C

### Instruction for use

#### Preparation

All surfaces which are to receive Brushbond FLXIII 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 FLXIII 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.

# Fosroc Brushbond FLXIII

## Application

For best results damp the surface before coating with Brushbond FLXIII. 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.

Brushbond FLXIII should be applied to the recommended coverage as follows:

It is recommended that general re-surfacing and areas subjected to light foot traffic should receive a Brushbond FLXIII in two coats of 500 microns each to give a 1mm thick coating. Additional coatings may be required for areas of moderate to heavy pedestrian conditions.

## Cleaning

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

## Technical Service

Fosroc offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

## Limitation

- Brushbond FLXIII should not be applied if the air or substrate temperature is greater than 45°C. This may result in different colour shades.

## Estimating

### Supply

<b>Brushbond FLXIII Kit</b>	:	15 litres pack
<b>Powder</b>	:	14.8 kg
<b>Liquid</b>	:	10 kg

### Coverage / yield

<b>Brushbond FLXIII</b>	:	15m <sup>2</sup> /pack applied at 1mm thick (2 coats of 500 microns thick)
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**Note:** Coverage figures are theoretical and due to wastage factors and the variety nature of possible substrates, practical coverage will be reduced.

## Storage

Brushbond FLXIII has a shelf life of 6 months in unopened pack, kept in a dry store, between 35°C and 10°C. In high humidity locations, the shelf life may be reduced to 4 months. The liquid and powder components must not be allowed to freeze.

## Precautions

### Health and safety

Gloves and goggles should be worn. Any splashes to the skin or eyes should be washed off with 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 unavoidable.

### Note

For porous substrate (Gypsum board) application, Nitobond PVA should be applied to seal the surface. followed by the application of Brushbond FLXIII.

\* Denotes the trademark of Fosroc International Limited

† See separate data sheet



## Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. **All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.**

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