

# Brushbond FLXIII

## 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:

- DIN 1048, Part 5, 1991
- ASTM E96 : 2005
- ASTM D412 : 2013
- ASTM D2240 : 2010
- Brushbond FLX 111 is deemed to be suitable for use with potable water sources as tested against BS 6920: Part1-1990.

### 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 35°C	:	Approx. 1.0 hr
Adhesion to substrate (ASTM D4541:2002)	:	> 1.0 N/mm <sup>2</sup>
Shore A hardness (ASTM D2240:2010)	:	79
Tensile strength (N/mm <sup>2</sup> ) (ASTM D412-2013)	:	> 2.00 N/mm <sup>2</sup>
Elongation at break (ASTM D412-2013)	:	> 300%
Water Permeability (DIN 1048:Pt 5: 1991)	:	Nil
Water vapour transmission (ASTM E96:2005)	:	~ 4.64 g/m <sup>2</sup> .hr
Crack bridging : (ASTM C836-2012)	:	2.0 mm
Foot traffic*	:	6hr +/- 1hr

\* On clean dry concrete with adequate ventilation @ 25 to 35C

# Brushbond FLXIII

## Application Instructions

### 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.

### 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 500µ m ( 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.

## Estimating

### Supply

Powder	:	25 kg
Liquid	:	16.9 kg
<b>Brushbond FLXIII Total</b>	<b>:</b>	<b>41.9 kg</b>

### Coverage

One 41.9kg pack yields approximately 50-60m<sup>2</sup> at about 0.5mm thickness depending on surface conditions and water usage.

Note: Coverage figures are theoretical and due to wastage factors and the variety nature of possible substrates, practical coverage may vary from figures above.

### Storage

Brushbond FLXIII 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 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 FLXIII components are non-flammable.



#### 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 Services, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it.

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