

# 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.

## Standard compliance

Brushbond FLXIII conforms to the requirements of:

DIN 1048, Part 5, 1991

ASTM E96 : 95

ASTM D412 : 92

ASTM D2240 : 95

Brushbond FLXIII is deemed to be suitable for use with potable water sources as tested against BS6920 : Part 1 - 1990

## 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.

## Properties

Pot life at 35°C : **Approx. 1- 1.5 hour**

Adhesion to substrate (ASTM D4541:1995) : **0.85 N/mm<sup>2</sup>**

Shore A hardness (ASTM D2240:1995) : **79**

Tensile strength (N/mm<sup>2</sup>) (ASTM D412-92) : **1.98 N/mm<sup>2</sup>**

Elongation at break (ASTM D412-92) : **180%**

Water Permeability (DIN 1048:Pt 5:1995) : **Nil**

Water vapour transmission (ASTM E96:1995) : **6.85 g/m<sup>2</sup>.day**

Crack bridging (ASTM C836-95) : **4.02 mm**

Chloride Content (BS4550:Part122-1983) : **0.01%**

Water Absorption (BS1881:Part122-1983) : **0.01%**

QUV Accelerated Weathering @2000 cycles (ASTMG53-93) : **No blistering**

## Instructions 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.

### Brushbond FLXIII Components    Mixing Ratio

Powder : 25.0 kg

Liquid : 16.9 kg

# Brushbond FLXIII

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## Application

The concrete substrate must be pre-soaked with water to achieve a saturated surface dry condition (SSD) before coating with Brushbond FLXIII. The surface must still be damp while applying the coating. If necessary, the pre-wetting must be repeated prior the application. Use a short, stiff bristle brush preferably 120 to 200mm in width. Apply like a paint using one or two coats as required.

Two coats are recommended for best results. The second coating must be applied as soon as the first coat has set and is still tacky. At normal ambient temperatures of +25 to +35°C, the waiting time should be between 3 to 6 hours max. at higher temperatures, the waiting time might be reduced. Please observe the detailed instruction of the Method Statement for this Product (available as separate document).

For trowel application, ensure that the substrate is leveled 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.

## Estimating

### Supply

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Brushbond FLXIII Kit:	: 41.9 kg packs
Powder	: 25 kg
Liquid	: 16.9 kg

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## Coverage

One 41.9 kg pack yields approximately 25 m<sup>2</sup> at 1mm thickness (2 coats of 500 micron each)

**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 12 months in unopened pack, kept in a dry store. In high humidity locations, the shelf life may be reduced to 6-8 months.

## Precautions

### Health & 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.



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### Important note

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