



constructive solutions

# 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

## Standards compliance

Brushbond FLXIII conforms to the requirements of:

- DIN 1048, Part 5, 1991
- ASTM E96: 95
- ASTM D412: 91
- ASTM D2240: 95

## 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.

## 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 @ 35°C	: Approximately 1 hour
Adhesion to substrate (ASTM D4541:1989)	: 1 N/mm <sup>2</sup>
Hardness Shore A (ASTM D2240-1997)	: 62
Tensile strength (N/mm <sup>2</sup> ) (STM D412-91)	: 0.9 N/mm <sup>2</sup>
Elongation at break (ASTM D412-91)	: 127%
Water Permeability (DIN 1048, Part 5:1991)	: Nil
Water vapour transmission (ASTM E96:1995)	: 0.632 g/hr-m <sup>2</sup>
Crack bridging	: Passed
Low Temperature Flexibility (ASTM C 765:1993)	: Passed
Setting time <sup>(1)</sup>	
Foot traffic	: 4 hours ± 1 hour
Light vehicle	: 24 hours ± 3 hours

**Note (1):** On clean dry concrete, with adequate airflow (ventilation) at 25°C to 35°C

## 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 recommended pot life.

Brushbond FLXIII components	Mixing Ratio
Powder	: 17.5 kg
Liquid	: 10 litre

## Application

For best results damp the surface before coating with Brushbond FLXIII. Use a short, stiff bristle brush preferably 120 - 200 mm in width. Apply like a paint using one or two coats as required.

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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 2 coats of 500 microns each to give a 1 mm 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

Kit of Brushbond FLXIII	27.5 kg packs
Powder	: 17.5 kg
Liquid	: 10 litre

### Coverage

Brushbond FLXIII :	2 m <sup>2</sup> /litre @ 500 microns/coat (2 coats application recommended)
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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 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 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 minimize dust formation; use a light mask if excessive dust unavoidable.

## The Right Chemistry for Construction

Fosroc is one of the world's major manufacturers of advanced technology chemical based products for the construction and refurbishment industries. It operates internationally through a network of operating companies, licensees, distributors and agents.

Having over 70 years experience and using global resources for research and technical development, Fosroc has built a substantial worldwide reputation in manufacturing the most comprehensive range of high performance construction chemicals:

- Concrete admixtures
- Surface treatments
- Grouts and anchors
- Concrete repair
- Industrial flooring
- Protective coatings
- Joint sealants
- Waterproofing
- Adhesives
- F.R.P Structural Strengthening
- Specific building products

\* Denotes the trademark of Fosroc International Ltd.



### 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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