

Fosroc® Brushbond FLXIII



constructive solutions

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

Uses

Seamless, elastomeric, waterproof membrane for use on buried structures such as bridge abutments, culverts and retaining walls. Also for use on non-trafficked reinforced concrete roof decks, in conjunction with an appropriate drainage system.

Advantages

- Can be applied to damp substrates
- No primer required
- Elastomeric
- Able to take occasional foot traffic when cured
- Factory pre-blended two component system ensures quality control at site

Standards compliance

Brushbond FLXIII complies with EN1504-2: Surface protection systems method 1.3 (Ingress Protection), 2.2 (Moisture Control), 5.1 (Physical Resistance) & 8.2 (Increasing Resistivity).


Water Regulations Advisory Scheme Approved.

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, resilience, flexibility, toughness and durability.

Properties

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Fosroc Ltd Drayton Manor Business Park, Coleshill Road, Tamworth, B78 3XN, UK 09 DoP:UK9-205 Certificate - No. 16/13274-2473-S	
Fosroc® Brushbond FLXIII	
EN1504-2: Surface protection systems methods 1.3, 2.2, 5.1 and 8.2	
Tensile strength (N/mm ²) (ASTM D412-91)	2.63N/mm ²
Elongation at break (ASTM D412-91)	43%
Water Permeability (DIN 1048:Pt 5: 1991)	Nil
Crack bridging (ASTM C836)	Passed
Low Temperature Flexibility (ASTM C 765:1993)	Passed
Water vapour transmission (Diffusion-Equivalent air layer thickness SdEN ISO 7783:2012)	3.7m
Carbon Dioxide Permeability (Diffusion-Equivalent air layer thickness Sd EN 1062-6:2003)	107m
Setting time * - Foot traffic	4 hrs ± 1 hr
Adhesion strength by pull-off test (EN 1542:1999)	1.6 MPa
Liquid Water Permeability (EN 1062-3:2008)	0.01kg/m ² h ^{0.5}
Abrasion resistance (Taber) EN ISO 5470-1:1999	178mg
Impact resistance EN ISO 6272-1	>20Nm (Class III)

Clarification of property values: The typical properties given above are derived from laboratory testing. Results derived from field applied samples may vary.

Note*: On clean dry concrete, with adequate airflow (ventilation) at 20°C to 25°C



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Brushbond FLXIII

Instructions for use

Preparation

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

Mixing

Place approximately 2/3rd of the supplied Brushbond FLXIII liquid component into a suitable plastic or metal container. The Brushbond FLXIII powder component should then be added gradually to the liquid whilst mixing with a slow speed drill (350-450 rpm) fitted with a Fosroc Mixing Paddle (MR3). Once all the powder is added continue mixing for 3 – 4 minutes until any lumps have dispersed. Add the remaining 1/3rd of the liquid component and mix for a further 1 – 2 minutes. Use the material within the recommended pot life.

Application

Pre-wetting of substrate

Thoroughly dampen the substrate surface with water using a brush or spray. Allow the water to soak in until the substrate is just visibly damp before proceeding.

Any excess water should be removed using a sponge. Any running water should be stopped with a suitable plugging mortar eg Renderoc Plug 20. 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 at the following thickness:

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.

Cleaning

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

Limitations

Brushbond FLXIII should not be applied if the air or substrate temperature is greater than 40°C. This may result in different colour shades. Minimum application, substrate and air temperature is 3°C and rising. Avoid freezing conditions for

24 hours after application.

When long term exposure to direct sunlight is expected, Brushbond FLXIII should be overcoated with Nitoproof UVR Topcoat.

Estimating

Supply

Powder	:	15 kg
Liquid	:	10 kg

Coverage and Yield

Brushbond FLXIII kit	:	14.5m ² /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 12 months from the day of manufacture if kept in dry storage in the original, unopened containers. If stored at high temperature/humidity, the shelf life may be reduced to less than 6 months.

Liquid containers should be kept from freezing and stored in a frost free environment.

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.

For further information refer to appropriate Product Safety Data Sheet.

Note

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

Brushbond FLXIII is available in grey and black. For WRAS approval, Brushbond FLXIII grey must be used.

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Important note

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