

BRUSHBOND

Acrylic polymer modified cementitious waterproofing coating for concrete and masonry surfaces

Uses

Fosroc Brushbond is a cementitious waterproofing system formulated to waterproof, fill and seals pores and voids of all masonry and concrete as follow:

- Planter box
- Reservoirs and water tanks
- Fountains
- Toilets: bathrooms and kitchen
- Basement
- Retaining wall and tunnel
- Concrete gutter

Advantages

- Minimum surface preparation needed.
- Applied directly to the concrete and masonry.
- Excellent adhesion bonds to porous and non-porous surfaces.
- Non-toxic. Ideal for portable watertanks.
- Excellent adhesion to porous and non – porous surfaces
- Excellent for damp proofing basements below grade
- Excellent for pointing leaking brick and masonry walls
- Breathable – allows transmission of water vapour from interior of building
- High resistance to carbon dioxide, chloride and ion diffusion
- Self -curing, no fear of premature drying.

Description

Brushbond is a two component acrylic polymer modified cementitious coating which is supplied in easy to use kits.

By varying the mix proportions, Brushbond can be applied

simply by a stiff brush, roller or trowel to obtain the desired texture.

Brushbond consist of specially selected cements, graded hard wearing aggregates and additives supplied in powder form together with a liquid component of blended acrylic copolymers.

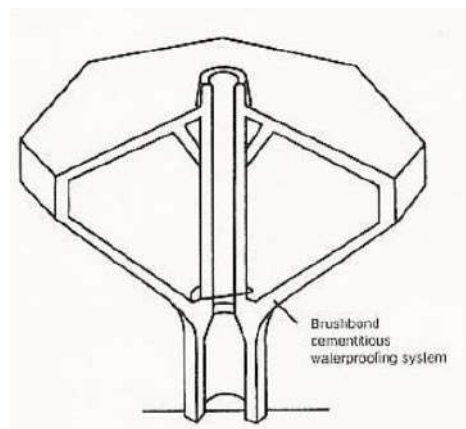
The acrylic polymer provides Brushbond with exceptional adhesion, resiliency, flexibility, toughness, and durability.

Application Instruction

Protection

The waterproof coating should be protected from rain, dirt, oil, grease or other loose material during its drying time.

The main contractor should take precautions to protect the waterproof coating from any mechanical damage the construction of nearby works.



Brushbond Waterproofing System to elevated RC

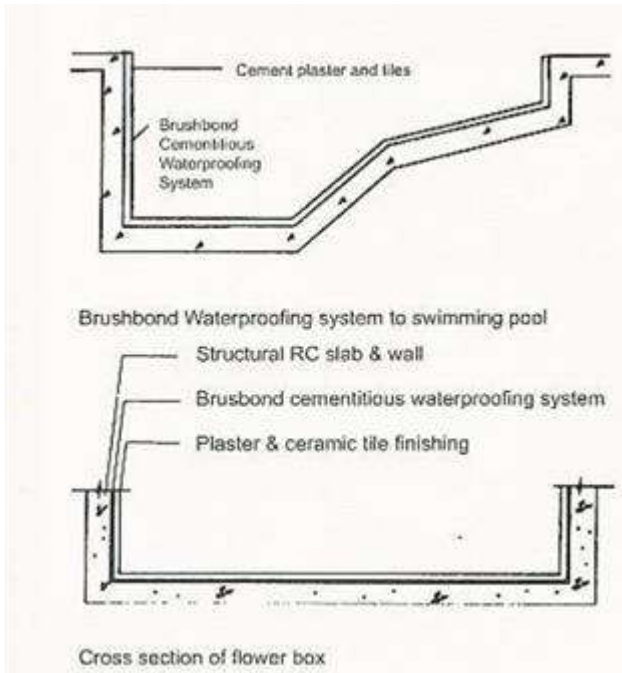
Reservoir

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Water vapour

transmission, 7.7 mm ASTME - 96 +/- 11 perms
coating thickness



Properties

Typical Properties

Pot Life at 35°C : +/- 60 minutes

Available Colour : Grey and White

Typical cured Properties

Properties	Test Method	Brushbond Coating
Water Absorption, %	ASTM C - 642	< 0.3
Adhesion to Concrete		
N/mm ²		>= 1
Elongation, %	ASTM D638	<10%
Permeability	DIN1048	< 2 %

Specification Clauses

Performance specification

All surface waterproofing (specify details and areas of application) must be carried out using a pre packed two component cement based products, which contains polymer modifiers.

The storage handling and application of the product must be in strict accordance with the manufacturer's instructions.

Application Instructions

Preparation

All the surface which are to receive Brushbond coating must be free from oil, grease, wax, dirt or any other form of foreign matter which might affect adhesion. Spoiled and deeply disintegrated concrete should be removed to sound concrete and repaired with repair product like Fosroc RENDEROC series.

Mixing

Add the powder component gradually to the liquid avoiding lump formation and mix for 3- 5 minutes till homogeny. Do not add with water because can reduce the waterproofing effectiveness. Continue mixing during applications.

Application

Damp the surface before coating with water.

Application of Brushbond on hot substrates (i.e. 40°C

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surface temperature) will need the prior application of a primer coat.. Mix Brushbond and water in slurry like consistency and applied on substrate. Only applied in area where brushbond will be coated. Apply Brushbond over the primer whilst the primer still wet.

Use a short, stiff bristle brush preferably 120 to 200 mm in width. Apply minimum two coats for best result. Spray or trowel application can be undertaken as necessary using the correct mixing ratio to obtain satisfactory consistency.

It is recommended that for general resurfacing each coat should be 1mm thick. Areas subjected to light foot traffic should receive at least 2mm thickness of Brushbond and an additional 2mm should be applied if conditions are moderate to heavy pedestrian traffic.

Limitation

- Where subsequent coatings or paints are required, trials should be conducted to ensure compatibility.
- Brushbond should not be applied if the air or substrate temperature is greater than 45°C. This may result in different colour shades.
- Brushbond should not be applied if the temperature of the substrate is below 5°C.
- Brushbond should not be applied where there is a likelihood of exposure to frost within 48 hours of the application.
- Brushbond should not be applied in windy conditions where early-age dust adhesion may occur, or where rain is likely within 2 hours at 20°C or 20 hours at 5°C (up to 80% RH).

Cleaning

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

Packaging

Brushbond is supplied in an industrial kit of 22.5 kg pack which consist of:

- Powder : 17.5 kg
- Liquid : 5.0 kg

Consumption

Depending on the usage of the surface to be coated, the approximately consumption is as follow:

Usage	Consumption	Thickness
Protective coating :	1.5 kg/m ²	0.9 mm
Waterproofing for toilet or bathroom :	2 kg/m ²	1.2 mm
Waterproofing for swimming pool or reservoir :	3 kg/m ²	1.8 mm

Storage

Brushbond has a shelf life of 12 months in unopened pack (T: 25- 35 °C, RH < 55%), kept in a dry store. In high temperature and humidity locations, the shelf life may be reduced to 6 – 8 months.

Precautions

Health and safety

Brushbond shall not be applied during rain or when rain is expected. Brushbond is non – toxic but it is alkaline in nature. Gloves and goggles should be worn. Any splashes



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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 in unavoidable.

Fire

Brushbond components are non – flammable.



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Important note

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