

Brushbond

Acrylic polymer modified cementitious coating for concrete and masonry surfaces

Uses

Brushbond is a cementitious coating for application to concrete and brickwork to provide a waterproof barrier and fill out surface imperfections. Suitable for sealing water tanks, reservoirs, toilets and bathrooms, balconies and basements as well as filling blowholes, cracks, imperfections and for providing concrete surfaces with a uniform appearance.

Advantages

- Minimum surface preparation needed
- Excellent adhesion. Bonds directly to porous and non-porous surfaces
- Waterproof and non-toxic - ideal for potable water tanks
- Excellent for damp-proofing basements below ground
- Breathable - allows transmission of water vapour from interior of building
- Traffickable (pedestrian) - provides non-skid surface on areas such as decks and floors of pools and playgrounds
- High resistance to carbon dioxide and chloride ion diffusion
- Non-yellowing - white remains white

Description

Brushbond is a two component acrylic polymer modified cementitious coating which is supplied in ready mix kits. When mixed in the proper proportions, an easy brushable coating is produced. Brushbond can be simply applied by a stiff brush or roller to obtain the desired texture. If mixed with the correct quantity of water, brushbond can also be spray applied.

Brushbond consists of specially selected cements, graded hard wearing aggregates and additives supplied in powder form together with a liquid component of blended acrylic co-polymers and wetting agents.

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

Technical support

Fosroc offers comprehensive technical support, including help at the design stage, application advice and on the site problem solving. Specifiers and Contractors are encouraged to contact our trained staff for answers to their questions.

For further information please contact Fosroc.

Typical Properties

Chemical resistance

Brushbond has outstanding wear and weather resistance combined with good chemical resistance to mild inorganic acid solution, diesel oil, gasoline, chlorides, de-icing salts, effluents, and organic solvents.

Brushbond provides a protective waterproof coating and has shown to resist water pressure up to 70 metre head. The degree of resistance of Brushbond to water under pressure depends on the coating thickness.

Technical data

Pot life at 20°C:	1 hour
at 35°C:	20 min.
Mixed density:	1.65 kg/ltr. (brushable consistency)
Colours:	Grey and White
Application temperature:	Not less than +5°C
Toxicity:	Non-toxic
Adhesion to concrete:	>1 N/mm ²

Typical cured properties

Properties	Standard	Unit	Brushbond
Tensile strength:	ASTM C-190	N/mm ²	5.0
Compressive strength:	ASTM C-190	N/mm ²	39.0
Flexural strength:	ASTM C-348	N/mm ²	11.0
Abrasion: resistance	ASTM C-241	% weight loss	1.1
Water vapour transmission rate			
1/4" thick:	ASTME-96	Perms	3.7

Application instructions

Preparation

All the surfaces 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. Spalled and deeply disintegrated concrete should be removed to sound concrete and repaired with Renderoc system.

Mixing

The Brushbond liquid concentrate in the plastic container are poured from the plastic container into the metal drum supplied. Start mixing with a mixing paddle and slow speed drill (350 - 450 rpm). Add the powder component gradually to the liquid avoiding lump formation and mix for 2 - 4 minutes. Do not temper mixed with water. Keep mixing during application.

Brushbond

Brushbond components	Mixing ratio (volume)		
	Trowel	Brush	Spray
Powder	3	2.7	2.5
Liquid	1	1	1
Water	0	0	0 - 0.3

Note: Brushbond is supplied as 22.5 kg and 32.2 kg packs with the powder and liquid pre-measured for brush consistency. For part pack mixing or for trowellable or spray consistency, measure the Brushbond powder and liquid in accordance with the following table.

Application

For best results dampen the surface with water before coating with Brushbond. Use a short, stiff bristle brush preferably 120 to 200 mm in width. Apply like a paint using one or two coats as required. Spray or trowel application can be undertaken as necessary using the correct mixing ratio to obtain the correct consistency.

On hot substrates (i.e. over 40°C surface temperature), a primer coat of mixed Brushbond and water with a slurry like consistency should be applied.

Cleaning

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

Estimating

Pack sizes

Brushbond:	22.5 kg pack
	32.2 kg pack (without external pail)

Consumption

Depending on the usage of the surface to be coated, two coats must be applied, consumption for one coat is as follows:

Usage	consumption
protective coating	0.75kg/m ² (0.45mm per coat)
water proofing for toilet or bathroom (up to 1m waterhead)	1.0 kg/m ² (0.6mm per coat)
water proofing for swimming pool or reservoir (more than 1m waterhead)	1.5kg/m ² (0.9mm per coat)

Allowances should be made for wastage when estimating.

Note: In accordance with Commercial or Health & Safety requirements packaging detail may alter. Please contact your local Fosroc office for detail.

Storage

Shelf life

Brushbond:	12 months
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Storage conditions

Store Brushbond in unopened original packs in a dry location. In high humidity, the shelf life may be reduced to 6 - 8 months. Prevent the liquid from freezing.

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 clean water. In the event of prolonged irritation, seek medical advice.

Fire

Brushbond components are non-flammable.

For further information, refer to product Material Safety Data Sheet.

Brushbond is the trademark of Fosroc International Limited.

Important note

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