

Brushbond (M)

Acrylic polymer modified cementitious waterproofing coating for concrete and masonry surfaces

Uses

Fosroc Brushbond (M) is a flexible 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 water tanks.
- Excellent for damp-proofing basement and below grade surface.
- Breathable-allows transmission of water vapour from interior of building
- Flexible-thermal expansion similar to concrete.
- Excellent for pointing leaking brick and masonry walls.
- High resistance to carbon dioxide, chloride and ion diffusion
- Self curing, no fear of premature drying.

Description

Brushbond (M) is a two component acrylic polymer modified cementitious coating. It consists of specially selected cements, graded hard wearing aggregates and additives supplied in powder form together with a liquid

component of blended acrylic copolymers and wetting agents.

The acrylic polymer provides Brushbond (M) with exceptional adhesion, toughness and durability. When mixed, an easy brushable coating is produced. Brushbond (M) can simply be applied by a stiff brush, roller, spray or trowel to obtain the desired texture.

Standards Compliance

Brushbond (M) is certified as compliant with BS 6920 Pt 1 2000 for use with potable water by Syarikat Bekalan Air Selangor Sdn Bhd.

Technical Support

Fosroc offers a comprehensive range of high performance high quality, construction products. In addition to a wide range of quality products, Fosroc offers a technical support package to specifiers and contractors which includes assistance with product selection and technical advice from staff with unrivalled experience in the industry.

Properties

Technical Data	
Pot Life:	
@ 20°C	60 mins
@35°C	20 mins
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
Tensile Adhesion Strength	0.5 N/mm ²
Typical Cured Properties	
Compressive Strength (BS 1881 Part 3 1983)	>14 N/mm ²
Flexural Strength (ASTM C-348)	5.0 N/mm ²
Abrasion Resistance (ASTM C-241)	1.1 % weight loss
Water Vapour Transmission	3.7 perms

Brushbond (M)

Technical Data

Rate - 1/4" thk (ASTM E-96)

Water Absorption (ASTM C-140)	2.0 % absorption
----------------------------------	------------------

Chemical resistance

Brushbond (M) has outstanding wear and weather resistance and also has good chemical resistance to mild inorganic acid solutions, chlorides, de-icing salts, effluents, etc.

Brushbond (M) provides a protective waterproof coating and has been shown to resist water pressure up to 7 metre head. The degree of resistance of Brushbond (M) to water under pressure depends on the coating thickness and the nature of the substrate.

Application Instructions

Preparation

All the surfaces which are to receive Brushbond (M) 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 a suitable concrete repair mortar such as Renderoc TG.

Mixing

Add the powder component gradually to the liquid avoiding lump formation and mix 2 to 4 minutes. Do not mix more material than can be used within pot life. Keep mixing from time to time during application. Brushbond (M) is supplied in the correct powder to liquid ratio of 3.5 : 1 (17.5kg : 5kg). Do not re-temper with water.

Application

For best results damp the surface before coating with Brushbond (M). Use a short, stiff bristle brush preferably 120 to 200mm in width. Apply, like a paint, one or two coats as required. Spray or trowel applications can be undertaken as necessary using the correct mixing ratio to obtain satisfactory consistency. Two coats are recommended for best results.

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

that can be coated with Brushbond (M) before the primer dries.

Subsequent Finishes

Brushbond (M) provides an aesthetically pleasing surface finish texture dependent on the methods of application and does not normally require any further surface finish. Brushbond (M) is however, compatible with most forms of subsequent coatings.

Should you need more information consult Fosroc Technical Department.

Protection

The freshly applied waterproof coating shall be protected from rain, dirt, oil grease or other loose materials during its drying time. The contractor should also take precautions to protect the Brushbond (M) of coating from any mechanical damage during the construction of his other works. Brushbond (M) waterproofing system to floors should be protected from damage by applying a protective screed.

Cleaning

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

Limitations

Brushbond (M) should not be applied during rain or when rain is expected.

For vertical application, Brushbond (M) should be cured for at least 5 - 14 days, depending on ventilation condition of area of application, prior to laying of cement/ sand plastering or tiling or similar.

The use of an approved tile adhesive or bonding agent can be an added advantage to ensure optimum bonding between tiling/ plastering and Brushbond (M). Please consult Fosroc technical department for details.

Brushbond (M)

Estimating

Supply

Brushbond (M) is supplied as a 22.5 kg pack:

Powder	17.5 kg
Liquid	5.0 kg
Total	22.5 kg

Coverage

Depending on the usage of the surface to be coated, the total consumption for two applications is as follows:

Usage	Consumption	Thickness
Protective Coating	1.5 kg/m ²	0.9mm
Waterproofing	2.0 kg/m ²	1.2mm

Storage

Brushbond (M) has a shelf of 12 months in unopened packs, kept in a dry store. In high humidity locations, the shelf life may be reduced to 6 to 8 months.

Precautions

Health and Safety

Brushbond (M) 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 plenty of 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 is unavoidable.

Fire

Brushbond (M) components are non-flammable.



Fosroc Sdn. Bhd.

No 8 Jalan Trompet, 33/8
Seksyen 33, 40400 Shah Alam
Selangor, Malaysia.

www.fosroc.com

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 Services, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it.

telephone:
+60 3 5102 5660

fax:
+60 3 5102 5668

email:
malaysia@fosroc.com



MAL/0901/11/A