

Brushbond GP

Cement and acrylic polymer modified, two component, semi-flexible waterproofing material



Uses

To protect atmospherically exposed reinforced concrete structures from attack by acid gases, chloride ions, oxygen and water. The product is also suitable to protect other cementitious substrates and masonry for new and existing structures. Typical applications include :

- Re-facing and reprofiling concrete & masonry surfaces
- Flexible coating to bridge shrinkage cracks
- Waterproof coating for water tanks, pools, concrete wall and wet areas
- Backing to marble and granite, preventing water ingress and alleviate staining

Advantages

- Excellent barrier to carbon dioxide, chloride ions and water
- Allows water vapour to escape from the structure
- Water proof - suitable for water retaining structures
- High resistance to the effects of long-term weathering, durable in all climatic conditions including UV attack
- Minimum surface preparation needed and low labour costs
- Flexible, with thermal expansion similar to concrete
- Covers honeycombed and pitted poured concrete effectively
- Good abrasion resistance
- Prevents carbonation in concrete

Description

Brushbond GP comprises a two component acrylic polymer modified cementitious coating supplied in ready to mix kits. Brushbond GP can be simply applied by stiff brush, roller, spray or trowel to obtain the desired texture.

Specification

The protective coating shall comprise specially selected cements, graded hardwearing aggregates and additives supplied in powder form together with a liquid component of blended acrylic co-polymers and wetting agents. The total dry film thickness of the coating shall be not less than 2 mm and shall be capable of providing resistance to wear and weather and good chemical resistance to mild inorganic acid solution, diesel oil, gasoline, chlorides, de-icing salts, effluents and organic solvents.

Properties

Typical properties	
Pot life at 25°C	120 minutes
Colour	Grey
Application temperature	+5°C - +35°C
Density	1,884 gr/cm ³
Bond strength	
(ASTM D4541:1989)	>1 N/mm ²
Tensile strength	
(ASTM D412-91)	>2,5 N/mm ²
Moisture vapour transmission	
(EN ISO 7783) Clas I	Sd<5
Capillary water absorption	
(EN 1062-3)	<0,1 kg/m ² h ^{0.5}
Pressurized water resistance	
3 mm application thickness	>2 bar (positive)

Instructions for use

Preparation

All surfaces should be dry and free from contamination such as oil, grease, loose particles, decayed matter, laitance, and all traces of mould release oils and curing compounds. This is best achieved by lightly grit-blasting the surface.

Spalled and deeply disintegrated concrete should be removed to sound concrete and repaired with a Fosroc repair system.

Chamfer tape should be applied to the corners and joints in the application area. In cases where there is no chamfer band, the joint details should be ovalized and the mesh should be reinforced in the mortar.

Mixing

The Brushbond GP component B 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 component A gradually to the component B avoiding lump formation and mix for 2-5 minutes until a smooth consistent mix is achieved. Use the material within the recommended pot life.

Brushbond GP

Application

For best results damp the surface before coating with Brushbond FLXIII. Sweep excess water to avoid ponding on horizontal areas. Use a short, stiff bristle brush preferably 120 to 200 mm in width.

For trowel application, ensure that the substrate is leveled and repaired of any undulations or pot holes.

Nitoband Joint Tape should be used in corner turns to reduce the load on the system.

Spray applications should use the correct mixing ratio to obtain satisfactory consistency. In hot climatic conditions, it is likely that spray application will be the best for exterior decorative finishes. Nozzle size should be 3-4mm and pressure of 6-8 bars should be used.

It is recommended that for general resurfacing each coat should be 1mm thick. It should be applied two coats to obtain a minimum dry film thickness of 2mm.

Cleaning

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

Supply	
Brushbond GP	25 kg(13,3 lt) pack
Component A (Powder)	20 kg bag
Component B (Liquid)	5 kg pail
Coverage	
Brushbond GP	1,88 kg/m ² /mm

Storage

Shelf life is 12 months in unopened packs. Store between 35°C and 10°C in a shaded environment.. Component B must not be allowed to freeze.

Technical Support

Fosroc offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer onsite technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Limitations

- Where subsequent coatings or paints are required, trials should be conducted to ensure compatibility. For further advice, consult the local Fosroc office.
- Brushbond GP should not be applied if the air or substrate temperature is greater than 35°C. This may result in different colour shades.
- Brushbond GP should not be applied if the temperature of the substrate is below 5°C.
- Brushbond GP should not be applied where there is a likelihood of exposure to frost within 48 hours of the application.
- Brushbond GP 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).

Precautions

Health and safety

Brushbond GP contains cement powders which, when mixed or become damp, release alkalis which can be harmful to the skin. During use, avoid inhalation of dust and contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment. The use of barrier creams provide additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately – do not induce vomiting.

Fire

Brushbond GP is non-flammable.

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

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† See separate data sheet



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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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