



Brushbond Plus

Two component, polymer modified. Cementitious waterproofing.

Uses

Brushbond Plus is ideal to be used for the following operations:

- To provide non-toxic, waterproof coating ideal for water retaining structures.
- To provide a tough coating.
- To protect concrete from attack e.g. from water and carbonation.
- Used as a waterproof base for swimming pools before fixing tiles.
- Can be used for basements, balconies, bathrooms.

Advantages

- Applied directly to the concrete and masonry.
- Waterproof, suitable for water retaining structures.
- Excellent for damp-proofing basements below grade.
- Slurry or trowelable consistency.
- Excellent adhesion to concrete & masonry.

Description

Brushbond Plus is a two-component polymer modified cementitious waterproof coating for concrete and masonry.

The first component: a pre-mixed powder, which consists of special cement and additives.

The second component: a liquid of polymers modified. When mixed, it produces a free-flowing excellent waterproof non-toxic coating with high strength, density, resiliency and adhesion. It is applied to concrete and mortar structures to prevent water infiltration. It forms an easy brush-able coating that can simply be applied by a roller, stiff brush, spray or trowel to obtain the desired texture.

Typical Properties (Tested at +23°C/60% RH)

Color	: Grey, White
Density	: 2.0 Kg/Ltr
Toxicity	: Non-Toxic
Flexural Strength	: > 9.5 N/mm ²
Modulus of Elasticity	: > 525 N/mm ²
Tensile Strength	: > 3.2 N/mm ²
Adhesion Strength	: > 1.13 N/mm ²
Compressive Strength	: > 30 N/mm ²
Water Permeability CRD C48, DIN 1048	: Unpermeable to water head up to 3 bar (positive direction) @ 1 mm DFT unpermeable to water head up to 1 bar (negative direction) @ 1 mm DFT
WVTR (water vapor transmission rate) ASTM E96	: 1.200 g/h.m ²
Crack bridging	: Passed up to 1.0 mm after 10 cycles

Note: The values given are typical figures achieved in laboratory tests. Actual values obtained on-site may show variations from those quoted.

Instructions for use

Surface preparation

The surface to be coated must be clean and sound.

Remove all traces of formwork, release agents, previous coatings, laitance, and any other contaminants that may affect the bond adversely.

Suitable cleaning methods include high-pressure water jetting and grit blasting.

Mechanical wire brushing may be appropriate for small areas.

After the above surface preparation, surfaces must be thoroughly washed with clean potable water to remove all dust and loose particles.

Brushbond Plus

Mixing

Pour the liquid component into a suitable container then add the powder and start mixing with a slow speed drill (350 - 450) rpm.

The mixture should be mixed for 3—5 minutes.

Allow at least overnight to cure before applying the second coat. Dampen the first coat and remove excess water.

Apply the sides so that it is perpendicular coats in the horizontal direction and another in the vertical direction.

Application

Pre-dampen the substrate surface with water.

High porosity substrates will require more dampening than dense substrates.

Any condensation should be removed using a sponge.

Any running water should be stopped with Renderoc Plug. Contact the local Fosroc office for further advice on other suitable water-stopping materials.

When the concrete surface is damp, apply the material using a soft-bristled brush (120 mm-200 mm wide) or trowel.

The first coat should be applied and should be well brushed into the surface.

Finish in one direction for a neat appearance. If the brush begins to drag during the application, do not add water to the material, but dampen the surface again.

Application may also be made by roller, however, it is recommended to finish the surface with a trowel for best results.

The first coat should be allowed to cure for a minimum of 3 hours at 35°C and longer at lower temperatures prior to the application of the second coat.

The material should not be applied at temperatures below 5°C.

Mixed material must be used within 30 to 45 minutes, or less under hot weather conditions.

The second coat should also be allowed to cure for 21 days at a minimum of 23°C.

No curing is required. Areas covered with Brushbond Plus are not to be filled with water for at least 3—5 days.

Curing

No curing is required.

Limitation

Do not mix more than can be used within one hour.

Do not add water.

Estimating

Supply

Powder component : 15 kg bags

Liquid polymer component : 5 kg container

Theoretical Coverage

Brush, roller, trowel : 1.9 – 2.1 kg / m² (at 1 mm coat thickness) (Depending on substrate roughness)

Storage

Brushbond Plus has a shelf life of 12 months if stored in a cool, dry store away from sources of heat in its original unopened packaging.

Precautions

Health and safety

For further information consult the Material Safety Data Sheet available for this product.

Fire

Brushbond Plus is non-flammable.



Fosroc Chemtech
Construction Chemicals

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 recent version.

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