

Brushbond

Acrylic polymer modified elastomeric waterproofing membrane coating for concrete and masonry surfaces

Uses

Brushbond provides a seamless, waterproof coating suitable for use in water tanks, reservoirs, swimming pools, roofs, toilets and wet areas to ensure water tightness.

Brushbond effectively protects against concrete decay providing a long lasting barrier to waterborne corrosive salts and atmospheric gases. Brushbond is designed to re-face and even out variations in concrete and masonry surfaces. Brushbond effectively seals concrete masonry walls and bridges the shrink-age cracks which are static.

Brushbond provides a tough and durable coating which cannot be easily damaged or worn away.

Advantages

- Minimum surface preparation needed - Low labour costs.
- Applied directly to the damp concrete and masonry
- Excellent adhesion - Bonds to porous and nonporous surfaces.
- Waterproof - Excellent for damp-proofing basements
- Breathable-allows transmission of water vapour from interior of building
- Excellent for concrete roof, leaking brick and masonry walls
- Good resistance to Carbon dioxide and Chloride ion diffusion

Description

Brushbond is a two component acrylic polymer modified elastomeric waterproofing membrane which consists of Brushbond powder and Brushbond liquid acrylic emulsion. It requires only the addition of water on site and when mixed in the proper proportions, an easily brushable coating is produced. Brushbond can simply be applied by a stiff brush, or trowel to obtain the desired thickness. Brushbond powder grey consists of specially selected cements, graded hard-wearing aggregates and additives supplied in powder and Brushbond liquid component of blended acrylic copolymers.

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

Technical Support

The company provides a technical advisory service supported by a team of specialists in the field.

Properties

Pot life	30 min. at 27°C
Mixed Density	1.85 - 1.95 gm/cc (brushable consistency)
Colour	Grey
Application temperature	< 10°C
Toxicity	Non-Toxic
Adhesion to concrete	>1N/mm ²

Note: The typical physical properties given above are derived from testing in a controlled laboratory environment.



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Results derived from testing field-applied samples may vary, dependent on actual site conditions.

Brushbond provides an elastomeric protective waterproof coating and is shown to resist positive hydrostatic pressure upto 7 meter head. The degree of resistance of Brushbond powder grey to water under pressure depends on the wet film thickness coating. Areas subjected to moderate and heavy loads/hydrostatic pressure. minimum 2mm wet film thickness coating is recommended with screed above.

Application Instructions

Preparation

All the surfaces which are to receive Brushbond, 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

Brushbond liquid is poured into a plastic or metal drum. To this, an equal volume of clean fresh water is added, for brush application consistency. Then mixing is started with a slow speed drill (350-450 rpm). The powder component is added gradually to the liquid avoiding lump formation and mixed for 2-4 minutes. Mix and use. More material should not be mixed than can be used within pot life. Retempering with water should not be done. Keep on stirring during application.

Mixing Ratio

Pack size	Brushbond Powder	Brushbond Liquid	Water
35.58 kg	30 kg	5.58 kg	5.20 litres
27.28 kg	23 kg	4.28 kg	4.0 litres
7.07 kg	6 kg	1.07 kg	1.0 litre

Application

For best results moisten the surface before coating with Brushbond. Apply the mixed material using a short, stiff bristle brush preferably 100 to 150mm width like a paint. Trowel applications can be undertaken as necessary using the correct mixing ratio to obtain satisfactory consistency. Brushbond shall be applied in two coats to achieve 1mm wet film thickness. The second coat of Brushbond shall applied as soon as the first coat has reached touch dry state.

On hot substrates, i.e., over 40°C surface temperature, a primer coat of mixed Brushbond Powder and water with a slurry like consistency should be applied. Prime only areas that can be coated with Brushbond Powder before the primer dries. Material should not be applied at temperatures below 10°C. It is recommended that for general re-surfacing the total thickness of the applied material be 1 to 2 mm wet film thickness. Areas subjected to moderate and heavy loads/hydrostatic pressure,

Brushbond

minimum 2mm wet film thickness coating is recommended with screed above. Allow the Brushbond to dry before covering with screed. Sprinkle coarse sand on wet surface of final coat for better adhesion of screed. Average drying time is 4 to 6 hours at normal temperatures. Water curing OR Curing membrane shall not be applied over Brushbond coating, only air curing is recommended.

Mechanical Key (Vertical & Horizontal application)

Sprinkle sieved coarse sand on wet surface of final coating for better adhesion of plaster or screed. Allow the coating to dry for a minimum period of 7 days before covering with plaster on the vertical surface & 3 days before covering with screed plaster on the horizontal surface. Maximum thickness of cement plaster recommended is 12 to 18mm & height of 1m in a single day to avoid de-bonding of plaster from Brushbond coating. Any deviation from the above recommendation please contact Local Fosroc office for advice.

Note: For vertical surface, like swimming pool, etc., it is recommended to use polymer modified plaster using Nitobond AR / AR Standard @ 2% i.e 1L per 50 kg bag.

Subsequent Finishes

Brushbond provides an aesthetically pleasing surface finish texture depending on the method of application, and does not normally require any further surface finishes. Brushbond is however compatible with most forms of subsequent coatings.

Cleaning

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



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Estimating

Packaging

Brushbond powder & liquid is supplied as below:

Brushbond Components	35.58 kg pack	27.28 kg pack	7.07 kg pack
Powder	30 kg	23 kg	6 kg
Liquid	5.58 kg	4.28 kg	1.07 kg

Coverage

This depends on the required consistency. The approximate coverage per pack at even consistency (1 mm wet film thickness) is as follows :

Pack size	Brush Application
35.58 kg	20-23 m ²
27.28 kg	16-18 m ²
7.07 kg	4-4.5 m ²

Allowances should be made for any possible wastages when estimating.

Storage

Brushbond has a shelf life of 12 months in unopened packs, if kept in a dry store. In high humidity locations, the shelf life may be reduced to less than 6 months. Prevent Brushbond liquid from freezing.

Precautions

Health and Safety instructions

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, medical advice should be sought. Should use a dust mask while handling the powder.