

Brushcrete

Acrylic Polymer for concrete & masonry

Uses

Brushcrete polymer in conjunction with cement provides a seamless waterproof coating to concrete and masonry surfaces. It can be used as a waterproof or protective coating.

Advantages

- Can be applied in uniform thickness to horizontal and vertical surfaces.
- Develops excellent bond to most building materials.
- Improves mechanical & physical properties of the coating system when used in conjunction with cement.
- Reduces or prevents salt penetration into concrete.
- Resistance to ultraviolet light or by chemicals ranging from mild acids to strong alkalies.
- Is highly impermeable in continuous wet condition.
- Is non-flammable and does not give off toxic gases, when exposed to fire.
- Non toxic

Description

Brushcrete is a single component acrylic based polymer when blended with cement forms a composite polymer modified cementitious waterproofing system, when used in conjunction with fibre mesh forms a tough hard wearing surface.

Technical Support

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

Properties

Pot life	20-30 min. at 30°C
Mixed Density of brushcrete topping	2.1 - 2.2 g/cc
Colour	White liquid
Application temperature	>10°C <35°C
Bond strength with concrete	>1 N/mm ²

Note: The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field-applied samples may vary, dependent on actual site conditions.

Areas of Application :

- Waterproofing of toilets, terraces, water retaining structures.
- General cementitious render

Application Instructions

Surface Preparation

Prior to application of Brushcrete, surface must be prepared as mentioned below to avoid failure :

The surface shall be cleaned to remove all dust, foreign matters, loose materials or any deposits of contamination which could affect the bond between the surface and the coating. This can be done by scarifying, grinding, water blasting, sand blasting, acid washing or by any other approved method.

New flat surface like sub-base concrete shall be made reasonably smooth so as not to impede the application of Brushcrete coating and to avoid sharp projections.

All concrete surfaces shall be thoroughly pre-wetted for at least one hour prior to the application of Brushcrete coating by pouring water on flat surface or by vigorously spraying water on vertical/inclined surfaces. Ensure that surface is only damp during application of Brushcrete coating.. In no case there should be standing water or a shiny wet surface.

Depressions are filled and leveled using Brushcrete. For filling, the mixing ratio is 1 kg cement:1.5 by silica sand and 0.5 kg Brushcrete.

Mixing

Brushcrete Polymer is mixed with neat cement in the ratio of 100 kg cement:50 kg of Brushcrete. The mix has to be stirred thoroughly until no air bubbles remain in the mix. Any lump found in the mix should be removed.

Application

The mix has to be applied by brush on rendered sound prepared surface. Two or more coats are recommended. First coat should be allowed to dry for 5-6 hours. The surface should be made wet before application in case of porous substrates.

equipment immediately after use with clean water. Hardened material can be removed mechanically.

Curing

During the first 12 hours of curing, it must be protected from abrasion, rain and other adverse conditions. No traffic shall be allowed on a Brushcrete treated surface within 48 hours after application. After application of final coat of Brushcrete, initial air drying shall be done for 2-6 hours. During this period no water is to be used for curing. In case of high temperature and

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low humidity combined with high wind condition, the coating shall be covered with polythene sheet to avoid rapid drying of the coating. After maximum period of 6 hours of the final application moist curing shall be done for the next 24 hours by way of spraying water on Brushcrete coating. During this period at no point of time should the Brushcrete coating be left completely dry or submerged in water. Following moist curing, the Brushcrete coating shall be allowed to air dry for 3 days before submersion in water if required for use

Cleaning

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

Estimating

Packaging

Brushcrete is supplied as a package of 5L, 10L, 20L & 50L container.

Yield/Coverage

Brushcrete Coating/Slurry

Mix Proportion : 100 kg cement : 50 kg Brushcrete

Material	1 coat on concrete	2 coats on concrete
	Kg/m ²	Kg/m ²
Cement	0.50	0.75
Brushcrete	0.25	0.38

Brushcrete Topping

Mix Proportion : 100 kg cement : 50 kg Brushcrete

Material	Quantities of Material in Kg for	
	One cubic meter	1sq.m for 1.5mm thickness
Cement	860	1.30
Brushcrete polymer	440	0.70
Fine Silica Sand	860	1.30
Total Weight in kg	2160	3.30

Storage

Brushcrete has a shelf life of 12 months if unopened containers stored in cool dry place.

Precautions

Health and Safety instructions

Brushbond is non-toxic. 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.



Fosroc Chemicals (India) Pvt. Ltd.

Head Office

Embassy Point, No. 150,
2nd Floor, Infantry Road,
Bangalore 560 001,
Karnataka

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telephone

+91 80-42521900

fax

+91 80-22281510

e-mail

enquiry.india@fosroc.com

Regional Offices

Chennai

Hills Centre, Old No 5,
New No 9, 3rd Cross Street,
Jeth Nagar, Raja Annamalaipuram,
Chennai 600 028.
Ph: 9500064795

Mumbai

MBC Park, 12th floor, Office No.12B,
'D' Block, Near G Corp/Hyper City
Kasarwadawali, Ghodbunder Road,
Thane (West) 400 615
Ph: +91 22 6229 6800

Noida

Unit No. 601, Highway Tower-II
A-13/2, 6th Floor, Sector- 62
Gautam Buddha Nagar,
Noida 201 309, Uttar Pradesh
Ph: +91 120 6121900
Fax: 0120-4270622

Kolkata

304, Jodhpur Park
Kolkata 700 068
Ph: +91 33-65343188
Fax: 033-2499-0278