

DECOBRUSH

Polymer Modified Protective and Decorative Coating for Concrete

Description:

DECOBRUSH is a two component acrylic polymer modified cementitious coating supplied in ready to mix kit. It is composed of special types of cements, silica sand, reactive fillers (Part A: powder), and acrylic polymer blended with chemical additives (Part B: liquid). It is formulated for application to concrete and brickwork to provide a crack-bridging waterproofing barrier and fill out surface imperfections. DECOBRUSH can also be applied for sealing, toilets and bathrooms, balconies and basements as well as filling blowholes, cracks, imperfections and for providing concrete surfaces with a uniform appearance.

DECOBRUSH has high bonding features to concrete surfaces and provide an ideal solution for protection against weathering, moisture and contamination. It can be simply applied by stiff brush, roller, spray or trowel to obtain the desired texture.

Applications:

DECOBRUSH is designed mainly as a protective coating to exposed reinforced concrete structures from attack by acid gases, chloride ions, oxygen and water. Other applications include:

- Re-facing concrete & masonry surfaces
- Flexible coating to bridge shrinkage cracks
- To coat the backside of marble and granite against water and pigments penetration. Suitable for waterproofing floor slabs before laying tiles.

Advantages:

- Resistant against harsh environment.
- Polymer modified, therefore, reduces permeability and dusting while increasing bond, flexure, and tensile strength.
- Excellent adhesion to all cementitious surfaces.

- Bonds directly to porous and non-porous surfaces without the need of primer.
- Excellent for damp-proofing basements below ground.
- Breathable-Allows transmission of water vapor from interior of building.
- Can fill the honeycombs, dot surfaces and concrete with pinholes.
- Durable, excellent resistance to UV.
- Excellent protection on against carbon dioxide, chloride ions and water.
- Provides flexible crack bridging when cured.

Instructions for Use:

Surface Preparation:

All surfaces should be sound, clean, dry and free from loose material, efflorescence, laitance, curing compounds; dirt, oil and grease. Ensure that concrete surfaces are cured for at least 14. In case of hard laitance, contamination or non-degradable curing compound, apply mechanical surface preparation such as, captive blasting or sand blasting, if the substrate is restricted to access, utilize preparation by handy mechanical tools and wire brush discs.

Damaged concrete should be repaired with a suitable cementitious repair mortar. Pinholes should be widened, cleaned and filled. Any static or dynamic cracks reveals at concrete surface after blasting should be treated. Consult MATEX Technical Department for recommendation. Prior to application the surface should be soaked with clean water. Excess standing water must be allowed to evaporate.

Mixing:

DECOBRUSH is supplied in a pre-measured quantity of a powder (part A) and liquid (part B). In a clean mixing container pour the polymer (component B) into the container and then add slowly the contents of the powder bag (component A). Use a low speed mixer (300-400 rpm) for an interval of 3-5 minutes till a

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homogenous lump free consistent mix is reached. Leave the mix for 4 minutes to allow air entrapped to be released. The mixture should be placed immediately after mixing. Mix enough material that can be applied within the pot life time.

Application:

DECOBRUSH can be applied with a roller, brush or a spraying machine, wet the surface of application thoroughly with clean water till a saturated surface dry 'SSD' condition is reached, this allows best adhesion and proper curing of the slurry. It is recommended to apply two coats of material with a total dry thickness of 2 mm. Apply the first coat to the surface in a spread rate of 1.5 kg /m² per coat. Once the first coat has dried, apply the second coat perpendicular to the first coat with same rate of application.

If the substrates is exposed to movements deformation, or to increase the mechanical strength characteristics of the coating, or where cracks are expected, it is recommended to fix ARMOGLASS, reinforcing glass fiber mesh into the first coat of DECOBRUSH, while still wet, and fully cover with the second coat to ensure monolithic integrated membrane layer formed without defected spots.

DECOBRUSH is a stand-alone performing product and requires no finishes. It can also be over coated with acrylic family of coatings and Anti-carbonation coatings for decorative purposes

Standards:

DECOBRUSH conforms to:

- ASTM D4541-02

Coverage:

One kit DECOBRUSH achieves coverage of 12 square meters per bag per two coats.

Cleaning:

Clean all tools with water before product hardens.

Packaging:

DECOBRUSH is supplied as a two component kits; 20 kg powder and 8 kg liquid.

Storage:

Store in original packing in dry conditions away from direct sunlight and high humidity levels.

Shelf Life:

DECOBRUSH can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

TECHNICAL PROPERTIES

Color	:	Cement Grey or White. Colored upon request
Tensile Strength	:	More than 1.00 N / mm ²
Resistivity to pressure	:	Positive 7 bar
Recoating Interval	:	4-8 hours
Bond Strength	:	1.40 N / mm ²
Density	:	1.55 ± 0.05 g/cm ³
Pot life at 25°C	:	60 minutes
Heat Resistance	:	-30°C to +90°C
Elongation at break	:	(without reinforcement) @ 4 mm thickness
Application temp.	:	+5°C to +40°C
pH of Mixture	:	≥ 12 at 20°C
Chloride resistance	:	Passed
Water penetration	:	NIL

Remarks:

- DECOBRUSH should not be applied if the temperature is greater than 45°C.
- DECOBRUSH should not be applied in rainy or windy conditions.
- For external application during summer season or temperature higher than 45°C, working area should be covered to prevent the direct sun effects. Keep equipment in a shaded area.
- If subsequent coatings or paintings are required, it is recommended to conduct compatibility trial test between two coatings.

Health and Safety:

- Use goggles and gloves during application. Use only in well ventilated areas.
- Avoid contact with eyes or skin.

This technical data sheet is not considered as local building codes. It shall be used as general reference
However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

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