POLYCRYL

Acrylic based waterproofing coating

POLYCRYL is a superior grade, single component; pure acrylic based waterproofing and protective coating for concrete & masonry surfaces. The coating is durable, flexible and has a high resistance to UV. The coating is suitable for both interior and exterior application

CHARACTERISTICS

- Excellent UV, weatherability & color retention properties
- Single component. Easy to use
- Excellent resistance to water and moisture
- Excellent resistance to carbon dioxide diffusion
- Excellent resistance to chloride ion penetration
- Breathable
- Good abrasion resistance properties
- Heat resistant & high solar reflectance
- Environmentally friendly. Low VOC (<10 g/lt)
- Excellent adhesion on most porous and non-porous substrates

FIELDS OF APPLICATION

- Suitable for exposed roof waterproofing.
- Protective coating over Polyurethane foam insulation.
- Protective and anti carbonation coating on concrete bridges and all exposed concrete structures, cement render and plastered surfaces.
- Terraces, balconies and patios.

APPLICATION INSTRUCTIONS

Surface Preparation

All the surfaces must be cleaned and made free of dust, dirt, moss, oil, grease and other loose particles. This can be achieved by grit/sand/shot blasting. As a minimum, vigorous wire brushing should be employed. All pot holes and surface defects shall be repaired with a suitable concrete repair mortar from the POLYCRETE* range.

Priming

A primer coat is recommended, particularly on the vertical surfaces to seal the pores and stabilize the surface. The primer coat can be made in the site by diluting the POLYCRYL 1 to 1 with water. The primer should be applied at a coverage rate of 5m^2/L Allow the primer to become tacky (approx 30minutes at 23°C 50% RH) prior to the application of the top coating.

On horizontal surfaces POLYCRYL can be applied directly without primer provided that recommended surface preparation has been carried out.

Mixing

POLYCRYL is single component but stirring of the pail is recommended prior to the application of the coating. This will remove any sediment which may occur during storage. The use of a slow speed drill and suitable paddle should be used in order to avoid the formation of air bubbles.

Application

Apply the coating with a brush, roller or airless spray. Allow the coating to dry completely before applying the subsequent coats. 2 coats should always be applied; the second coat at 90° to the first. We recommend that a non-woven geo-textile membrane be embedded into the first coat whilst it is still wet at all expansion joints projections and corner fillets to reinforce these areas.

Allow the final coating to cure fully (72 hours) after which it can be put in service.

For roof applications, the coating should be applied @1.2 lt/m^2/coat for a DFT of 1.5mm in 2 coats.

As a protective coating on concrete/render/plaster surfaces, the coating should be applied @0.75 lt/m^2/coat for a DFT of 1mm in 2 coats.

COVERAGE

3.0 m^2/L at 200 microns Dry Film Thickness.

CLEANING

Clean all the tools with water after use. Hardened materials can be removed mechanically only.

Partially used materials in pails can be re-used; all cured and partially cured material should be removed before re-using the material.

STORAGE & SHELF LIFE

Store under cover, out of direct sunlight and protect from extreme temperatures. In tropical climate the product must be stored in air - conditioned environment (<25°C).

Shelf life is up to 12 months when stored as recommended.

HEALTH AND SAFETY

As with all construction chemicals products caution should always be exercised. Protective clothing such as gloves and goggles shall be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

SUPPLY

POLYCRYL	20L Pail

* Refer to website for TDS

TECHNICAL SPECIFICATION

PROPERTIES	VALUES
Colour	White/Grey
Density, (g/cc)	1.25 ±0.05
Solid Content, (%)	61±3
VOC, (g/L)	<10
Tensile strength, (MPa)	≥2
Elongation, (%)	≥300
Toxicity	Non toxic
Solar reflectance	Excellent
Heat & UV resistance	Excellent
Abrasion resistance	Good
Impact resistance	Good
Application temperature, (°C)	5 to 45

All values given are subject to 5-10% tolerance.

Manufactured in G.C.C.

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