SUNEPOXY 358

Two Component High Viscosity Epoxy Resin

TECHNICAL DATA SHEET

DESCRIPTION

SUNEPOXY 358 is select epoxy resin specially formulated to provide a durable coating suitable for application to both vertical and horizontal surfaces. It cures to form a smooth hygienic film with good resistance to a wide range of mineral and organic acids, alkalis, fats and oils.

USES

- Corrosion protection of steel, reinforcement steel and repair mortar
- Bond coat for old and new concrete, concrete and steel surface
- Hygienic and chemical resistant coating for steel tanks, concrete walls, concrete and steel columns
- Joints of metals, flooring screed
- Chemical resistant linings etc.

ADVANTAGES

- Tough abrasion, chemical resistant film
- Excellent adhesion to many surfaces including concrete or metal substrate

CHEMICAL RESISTANCE

- **SUNEPOXY 358** has been formulated specially to provide high chemical resistance.
- However, at elevated temperatures or where mixtures of chemicals are involved then the effects may be different than those found in laboratory tests.
- However it can be modified to suit specific requirements.

TECHNICAL DATA

Colour	Clear
Pot Life	Approx. 1 hour
Cure Time	2 - 4 hours
Time between Coats	3 - 5 hours.
Initial Hardness	18 hours.
Full Cure	6 days
Coverage & Yield	4.5 - 5 m²/litre on a fairly smooth surface. 15 kg of resin + hardener + quartz sand yields 10 litre of mortar mix.
Storage & Shelf Life	12 months when stored in a cool & dry place, away from direct sunlight, in original sealed packing.
Packing	1, 5, 20 kg

INSTRUCTIONS FOR USE

Surface Preparation

- Surface preparation is very important in order to achieve maximum adhesion between the coating and substrate.
- Free the surface from loose material, grease and oil by grit blasting or water jet.
- Remove deeper penetrated material by mechanical means.
- Remove all laitance from the concrete surface and then wash it off.
- Dry the surface completely.
- If surface is new concrete, then cure it for at least 28 days prior to coating.
- Clean and make rust free all steel surfaces by shot-blasting.

Mixing

- **SUNEPOXY 358** has a 2:1 resin: hardener volume based ratio.
- Mix one batch at a time. Pour half kg of the hardener into one kg resin in a bucket.
- Mix the materials thoroughly using a slow speed (300-500 rpm) flame proof or air driven drill fitted with a mixing attachment.

Priming

- Apply the first coat of **SUNEPOXY 358** mix by brush as the priming coat.

Mortar Preparation & Placement

- Mix 2 kg Resin + 1 kg Hardener + 9-12 kg Quartz Sand (Graded) thoroughly to homogeneity using a slow speed (300-500 rpm) flame proof or air driven drill fitted with a mixing attachment.
- While the priming coat is still wet and tacky, place the epoxy mortar in required thickness and level with trowel.

Seal Coat

- Prepare a seal coat of **SUNEPOXY 358** as explained in the mixing of priming coat.
- Apply this mix by a soft paintbrush over the mortar layer.

PRECAUTIONS

- Prepare priming coat, mortar and seal coat in small quantities that can be used within half an hour.

HEALTH & SAFETY

- Do not ingest.
- Use gloves and barrier creams while handling primers and **SUNEPOXY 358**.
- If contact with the skin occurs, wash with soap and plenty of water.
- Direct contact with eyes may cause irritation. Wash thoroughly with plenty of water. Seek medical treatment.

HAZARDS IDENTIFICATION

- Health hazards: No particular hazard known. If the product spills on to the skin and dries up, some irritation may occur.

FIRE

- **SUNEPOXY 358** and xylene are flammable. Do not use near a naked flame
- Ensure adequate ventilation when using primers and solvents.

CLEANING

Clean the tools and equipments with xylene immediately after use.

QUALITY ASSURANCE

All products are manufactured under a Quality Management System for Design, Manufacturing and Selling of Construction Chemicals as per the standards of ISO 9001:2015.

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