Shield Sealer PU 500
TECHNICAL DATA SHEET

Two-Component High Build UV Resistant Polyurethane Resin Coating

Description

Shield Sealer PU 500 is a specially designed 2K Polyurethane sealer and coating that exhibits good mechanical properties and exterior durability. When used on Epoxy coating as a final coat, it protects epoxy for the UV rays. The product is designed to be used as Top coat in traffic areas.
Shield Sealer PU 500 is also recommended specially for use as as UV Stable, flexible, used as clear top coat for self smoothing resin flooring systems and for Cementitious and mineral decorative flooring systems.

Uses

Shield Sealer PU 500 is designed to be applied in areas such as:

- Car Parkings
- Commercial Areas
- Chemical & Food Industries
- Decorative Flooring Systems
- Industrial Floorings
- Storage and Warehouse
- Traffic Areas
- Walkways
- Waterfront

Application

- Based on the environment apply 1-2 coats of Shield Sealer PU 500 @ 40-80 microns DFT.
- Allow 4-5 hours for the film to touch dry.
- For recoating, minimum of 12-16 hours is required based on temperature.

Packing & Shelf Life

Packaging	5kg Set and 16kg Set
Shelf-life	Store In dry and cool place original closed packing, away from direct sun and frost 6 months.

Required Surface

- Ensure the application surface is clean, dry and free from any dust, dirt and other particles.
- New concrete surfaces must be cured at least 4 weeks before application of primer.
- The surface should be sound and free from any laitance.
- For best performance on new concrete surfaces, acid etching may be used. The surface should be treated with 10 – 15% dilute hydrochloric acid. Keep overnight and clean surface thoroughly with sweet water. The washing must be continued till the acidity becomes neutral. Use pH paper to ascertain the level of acidity.
- Blow holes should be filled with suitable flooring compound before application.

Thinning/Cleaning

Clean the tools using recommended Thinner.

Safety, ecology and disposal

Avoid contact with skin and eyes. Use protective gloves, clothing and googgles. For more information, please refer to Product Safety Information Form. (MSDS)

Characteristic Data

Base	Acrylic Polyol and Aliphatic Isocyanate
Consistency	Fluid
Density	1.0 Kg/l
Color	Clear
Finish	Gloss & Matt
Application	Roller, Brush & Airless Spray
Coverage	6-8 M2/Liter @ 35-50 Microns DFT
Coat	One or Two Coat
Surface Drying Time	24 Hours for Redcoat and 72 Hours for Foot Traffic Resistance
Resistance to Weather	Good
Chemical Resistance	Good

Our recommendations concerning the technical application of the product, whether through oral or written communication or through demonstration, are given to the best of our current knowledge; however, any such instruction shall be without commitment, including where any protective rights of third parties are involved. They do not free you of the obligation to check the products supplied by us for their suitability for the procedures and applications envisaged. The (intended) use and application of the products are beyond our control. They are therefore your personal responsibility. In the event that GAC proves liable, such liability shall be limited in all cases of damage to a sum not exceeding the actual value of the goods supplied by us and used by you. It goes without saying that we guarantee the good quality of our products, in accordance with the standards set out in our General Terms of Sale and Delivery.

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Note

Conditions to Check Before Applying Sealer upon Resin Bound Surfaces :

Full Curing of the Surface :

Resin-bound systems generally require 24–48 hours to cure during summer (typically 24–36 hours, depending on thickness and application area).In winter, the curing process is significantly slower. Although the surface may appear dry on top, the underlying layers may still be uncured. For proper hardening, a total curing period of 3–4 days is recommended. Applying a sealer before full curing can soften the surface and may result in debonding of the resin flooring.

Absence of Moisture and Contamination :

Ensure the surface is free from moisture, dust, algae, or any contamination. PU sealers are highly sensitive to moisture and will not perform correctly if the surface is damp.

Surface Porosity :

The resin-bound surface must be sufficiently porous to allow the sealer to penetrate and bond effectively.

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