

Shield Sealer EP 250

2 Component Solvent Free Heavy Duty Epoxy Top Coat Sealer

Description

Shield Sealer EP 250 high-performance two-component amine-cured solvent-free epoxy coating, designed for ease of application and unparalleled versatility. Notably, it excels in providing excellent chemical, abrasion, and impact resistance, ensuring long-lasting durability even in challenging environments. For enhanced slip resistance, consider incorporating Slip Grip. This Sealer is specially formulated for atmospheric environments and is compatible with approved primers, coatings and decorative cement based finishes making it the ideal choice for your surface protection needs.

Uses

Our versatile flooring solution is crafted to meet the diverse needs of various floor types, offering exceptional performance in the face of mechanical and chemical exposure. Specifically tailored to environments demanding dust-free, durable, and visually appealing coatings, it excels in industrial settings such as offices, laboratories, hospitals, food and beverage plants, kitchens, high-tech manufacturing facilities, dairies, warehouses, factories, and hangars. Whether the challenge lies in heavy usage, stringent hygiene standards, or a desire for an aesthetically pleasing finish, our flooring solution delivers the ideal combination of durability and aesthetics, making it the preferred choice for a wide spectrum of applications.

Advantages

- Heavy duty
- Excellent gloss
- Superior adhesion
- High abrasion resistance
- Long lasting performance
- Excellent resistance to wear and tear
- Outstanding chemical resistance

Surface Preparation

New Construction: When dealing with newly constructed concrete floors slated for coating, it's imperative to adhere to a meticulous process. These concrete surfaces must be granted a minimum curing period of 28 days to ensure their structural integrity. Furthermore, the floors should exhibit a pristine condition—free from any residues like oils, grease, mortar, loose particles, or dust. The removal of laitance, a thin layer of weak and loose material, is essential and should be executed through mechanical means, such as vacuum recovery shot blasting. Additionally, it is critical to monitor moisture content, which should not exceed 5%, to guarantee optimal adhesion and coating performance.

Existing Substrate: For existing substrates, a rigorous approach to surface preparation is indispensable. All traces of contamination must be thoroughly eradicated, leaving behind a clean and sound substrate. Mechanical methods of preparation are strongly recommended, ensuring the removal of dust and any loose debris

with the assistance of an industrial-grade vacuum system. Addressing cracks and minor surface imperfections is equally important, necessitating timely repairs and adequate drying periods before initiating the priming process. This meticulous approach ensures that the substrate is in prime condition to receive the subsequent coating application, thereby maximizing the longevity and performance of the coating system.

Application Process

- Wear appropriate personal protective equipment, including gloves and safety goggles, in a well-ventilated area.
- Gather the SS EP 250 (Part A) and SS EP 250(Part B) specified for your project.
- Carefully measure the recommended ratio of Part A to Part B. Use precise measuring tools.
- Pour Part A into a clean mixing container, followed by Part B. Ensure all components are fully emptied from their containers. Use a clean mixing paddle or stick to blend Part A and Part B together. Scrape the sides and bottom of the container to incorporate all the material. Mix the components in a slow and deliberate manner to minimize air entrapment. Avoid whipping or introducing excess air into the mixture.
- Mix only the amount you can apply within the timeframe of 30-45 minutes.
- Once thoroughly mixed, apply the sealer to the prepared surface using the appropriate tools (brush, roller, or sprayer) as per your project requirements.
- Always adhere to the specific product instructions provided, as mixing and application procedures can vary depending on the epoxy product and its intended use.
- Clean mixing tools and containers with the appropriate solvent or cleaning agent, following safety guidelines.
- Remember that the mixing process may vary slightly depending on the specific epoxy product you are using, so always consult the product's technical data sheet and follow the manufacturer's guidelines for best results.

Transportation, Storage and Handling

Store the material in proper storage conditions as per the local regulations. Keep the container in sealed condition under shed away from direct sunlight and extreme temperatures. Do not stock material near to any ignition sources. Do not put back the half or unused material back in original container, containing the supplied material, to avoid contamination. Handle with care. Stir well before use..

Disposal

Dispose of in accordance with local council regulations.

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.

PRODUCT DATA SHEET

Shield Sealer EP 250



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Product Data

Volume Solids	100%
Specific Gravity	1.0± 0.05
Pot Life	30 Min. @ 30oC
Touch Dry	3-4 Hrs. @ 30oC
Recoat/ Overcoat	12-16 Hrs. & 72Hrs Max
Full Strength	7 days
Coverage	3M2 per Ltr
DFT	300 microns
Finish	Glossy & Matt
Water resistance	Excellent
Abrasion Resistance	Excellent
Chemical Resistance	Very Good
Shore A Hardness ASTM D 2240-05	> 95
Tensile Strength ASTM C 307:94	> 20 N/mm2
Flexure Strength BS 6319:Paart 3:1983	> 30 N/mm2
Pull Strength ASTM D 4541	> 1.3 N/mm2
Compressive Strength ASTM C 109:96	> 70 N/mm2

*1 Coverage will vary depending on the porosity and texture of the substrate.

Packing & Shelf-Life

Packaging	5kg Set
Shelf-life	1 year in unopened packaging stored in less then 25°C temp. In cool and dry place away from direct sunlight

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