

Shieldprime EP

Two-component, Solvent-free Epoxy Primer



Description

Shieldprime EP is a two-component, solvent-free epoxy-based primer, designed to prepare concrete substrates and enhance adhesion of the subsequent application of epoxy flooring and coating systems.

Uses

- Warehouses, garages, hospitals, and food processing areas.
- As a surface sealer where durability and excellent abrasion as well as chemical resistance are required.
- Automotive industry.
- Industrial and commercial flooring applications.
- Works as a dustproof for concrete.

Characteristics / Advantages

- Easy to apply.
- Environmentally friendly.
- Provides a durable, and long-lasting finish.
- Closes and seals surfaces of porous substrates prior to the application of epoxy finishes, floorings, and coatings.
- Increases the adhesion of subsequent coats and finishes.

Packaging

Shieldprime EP is supplied in 14-L drums.

Application Instructions

1. Surface Preparation

The substrate must be free from dust, loose materials, surface contamination, and any materials that may reduce bond or prevent penetration of the primer.

Surface defects such as cracks, blowholes, and voids must be repaired using appropriate products from **Shield Concrete Repair** range.

Concrete substrates should be 28 days (fully cured), with a relative humidity of less than 80%.

Typical Properties

Appearance / Color	Pale yellow liquid
Mixed Density @ 23°C	1.05 ± 0.05 g/ml
Pot Life	80 – 120 minutes @ 23°C 40 – 60 minutes @ 40°C
Tack-free Time	12 hours @ 23°C 8 hours @ 40°C
Overcoating Time	24 – 48 hours
Application Thickness	100 – 200 microns
Application Temperature	10 – 40 °C
Bond Strength (EN 1542) @ 7 days	> 2 MPa (Concrete Failure)

2. Mixing

Components A and B should be stirred separately before being mixed. **Component B** (hardener pack) should be added to **component A** (base pack) and mixed using a low-speed mixing drill for 3 minutes while reaching the walls and bottom of the container until a homogeneous and consistent material is obtained. Once mixed, the material should be used within its specified pot life.

3. Application

Shieldprime EP is applied on porous substrates using a brush, roller or sprayer at the rate of 5 m²/kg.

Multiple layers may be required according to the porosity of the substrate. The subsequent layer should be applied within the specified pot life, and while **Shieldprime EP** is still tacky. If the material loses its tackiness, the cured layer must be mechanically removed, and another fresh coat shall be applied according to the open time.

The surface is considered fully treated when a slight sheen appears on the surface.

4. Cleaning

Clean the tools and any uncured material using a suitable solvent. Hardened material should be removed mechanically.

Coverage

Approximately 5 m²/ kg at 200 µm DFT but may vary due to site wastage and substrate condition/profile.

Safety Instructions

The application should be done in a well-ventilated area with adequate air circulation, away from any heat source and ensure having gloves, eye protection, masks and protective clothing.

Avoid contact with the eyes and skin. In case of direct contact with the skin, wash the affected area immediately with water for several minutes. If it comes into contact with the eyes, rinse immediately with lukewarm water for at least 15 minutes and get medical advice or treatment if any emergency warning signs appear.

Dispose of any leftover epoxy and waste materials according to local regulations and guidelines. For further information, refer to the Material Safety Data Sheet.

Shelf Life and Storage

Shieldprime EP has a shelf life of 12 months when stored in its original unopened packaging in cool and dry conditions, protected from direct sunlight, heat, and moisture.

Shelf life may be reduced if the recommended storage conditions are not followed.

Limitations

- Do not apply the product if the ambient temperature is less than 10°C.
- Shieldprime EP** should be applied to substrates that are free from moisture or rising damp.

Technical Support

Refer to technical information, method statement, or contact technical support team for any inquiry.

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