

Shieldprotect PF330

Pitch-free Epoxy Coating



MICSHIELD®

Description

Shieldprotect PF330 is a two-component, solvent-free, pitch-free epoxy coating that provides a high build coating to protect concrete and steel from chemical attacks. It also provides an outstanding resistance to water, chemicals, and corrosion, making it ideal for marine applications.

Uses

- Sewage and wastewater treatment plants and tanks.
- Industrial water tanks and process water containment.
- Protects underground, submerged, and immersion-exposed concrete and steel structures.
- Suitable for concrete, asbestos cement, steel, and non-ferrous metal structures.
- Protecting tanks, ducts, pipelines from corrosion.
- Retaining walls and tunnels.
- Not suitable for applications in contact with potable water or food.

Characteristics / Advantages

- Easy to apply by brush, roller, or spray.
- Abrasion and corrosion resistant.
- Produce a seamless glossy finish.
- Durable and chemical resistant.
- Flexible.
- Resistant to water, moisture, acids, and sewage.
- Excellent adhesion to concrete and metal.

Packaging

Shieldprotect PF330 is supplied in 27-kg drums.

Shelf Life and Storage

Shieldprotect PF330 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.

Typical Properties

Appearance / Color	Black Liquid
Mixed Density	1.50 ± 0.10 g/ml
Solid Content by Volume	100%
Pot Life (25 °C)	60 – 80 minutes
Dry Film Thickness	100 – 200 microns /coat
Tack Free Time (25 °C)	4 hours
Overcoating Time (25 °C)	8 – 24 hours
Full Cure (25 °C)	7 days
Taber Abrasion (ASTM D4060) CS17, 1000 g, 1000 cycles	≤ 50 mg @ 7 days

Application Instructions

1. Surface Preparation

Concrete substrates must be free from dust, grease, loose materials, surface contamination, and any materials that may reduce bond between the coating and the substrate. Concrete substrates should be 28 days old, with a relative humidity of less than 90%. Surface defects such as cracks, blowholes, and voids must be repaired with **Shieldrep ER60**, prior to application.

Steel substrates should be clean and free from rust, and grit blasted to achieve SA 2^{1/2}.

2. Priming

Priming is not normally necessary for sound, non-porous substrates. For porous substrates, it is recommended to apply **Shieldprime EP**.

Priming depends on the condition of the substrate.



3. Application

Shieldprotect PF330 is applied immediately onto the prepared substrate. Apply the first coat at 150 - 200 microns WFT evenly using a shorthair brush, roller, or airless sprayer and allow to dry before overcoating.

A second coat can be applied once the first coat has achieved a tack-free condition (within the overcoating time). If the overcoating time exceeded its acceptable range, scrape the first coat and wipe using a suitable solvent before applying the second coat.

4. Cleaning

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

Consumption

0.23 – 0.30 kg/m²/ coat @ 150 – 200 microns

The coverage rate is given for guidance only. The actual rate depends on substrate porosity, roughness, surface profile and application method.

Limitations

- Do not apply the product if the ambient temperature is less than 5°C.
- Hot weather practices should be adopted during application and curing if the temperature is above 30°C. In hot conditions, store the material in a cool environment 24 hours prior to mixing and application.
- **Shieldprotect PF330** is designed to be used internally and should not be exposed to direct sunlight or intense UV to avoid discoloration.

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. For further information, refer to the Material Safety Data Sheet.

Technical Support

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

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