

Shieldprotect Ultra

α-silane Protective Coating and Sealer



MICSHIELD®

Description

Shieldprotect Ultra is a ready-to-use, protective coating and sealer based on Alpha-silane terminated polyethers, provides superior protection for cement-based floor underlayments and screeds, and formulated with advanced silane modification to create a durable, scratch- and stain-resistant layer that enhances the longevity, UV stability, and aesthetic appeal of floorings.

Uses

- Interior and exterior applications.
- Residential and commercial buildings.
- Polished and non-polished concrete floors.
- Paving stones and bricks, natural stone.
- Showrooms, galleries, museums.
- Driveways, walkways, and garden structures.

Characteristics / Advantages

- Ready-to-use and easy to apply by roller, brush, or sprayer.
- Protects surfaces from wear, scratches, and abrasion.
- Stain resistant, creates a hydrophobic barrier that prevents the stains caused by penetration of water, oils, coffee, etc.
- Resistant to UV and weathering conditions.
- Excellent adhesion strength with cement-based substrates.
- Solvent-free, moisture-cure, with rapid drying characteristics.
- Water repellency of > 95%.
- Can be polished to achieve a high-gloss finish.
- Low VOC, and environmentally friendly.

Coverage

Approximately 80–150 g/m² for the first coat; and 50% of the first coat consumption for the second coat, but this may vary due to site wastage, substrate condition/profile, and application thickness.

Typical Properties

Color / Appearance	Transparent liquid
Specific Gravity (23 °C)	1.15 ± 0.02
Viscosity	75 cP
Touch Dry Time (25°C)	1 – 2 hours
Light foot traffic (25°C)	24 hours
Full Cure	7 days
VOC	< 0.5%
Wet Film Thickness	100 µm

Shelf Life and Storage

Shieldprotect Ultra 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.

Packaging

Shieldprotect Ultra is supplied in 20 kg jerrycans.

Safety Instructions

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



Application Instructions

1. Surface Preparation

The substrate must be sound and free from dust, loose materials, surface contamination, and materials that may reduce bond or prevent adhesion. Cracks, voids, and damage should be repaired using the appropriate product from **Shield Concrete Repair** range.

2. Mixing

Shieldprotect Ultra should be thoroughly stirred prior to application, to ensure a homogenous mixture.

3. Application

Shieldprotect Ultra is applied onto the prepared substrate using a microfiber mop, short-hair roller, brush, or airless sprayer equipment. One or two coats are typically sufficient to achieve full coverage, with a maximum wet film thickness of 100 µm per layer.

Apply the first coat and allow it to dry (24 hours) before applying the second coat to obtain optimal protection.

4. Cleaning

All mixing and application equipment should be cleaned immediately with clean water. Hardened material should be mechanically removed.

5. Curing

Allow the sealer to cure fully before exposure to moisture or traffic.

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 35°C. In hot conditions, store the material in a cool environment prior to application.
- In high-traffic areas, the second coat is necessary to enhance durability and stain resistance.
- Ensure wearing appropriate personal protective equipment (PPE); gloves, eye protection, masks, and protective clothing, and ensure good ventilation during application.
- Ensure the buckets are tightly closed after use to avoid skin formation.

Technical Support

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

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