

Shieldprotect SI

Advanced Silicone Penetrating Sealer



Description

Shieldprime is a water-based silane-siloxane sealer and primer that deeply penetrates and strengthens the substrate, forming a transparent, breathable, and hydrophobic barrier that prevents water absorption while allowing moisture vapor to escape. It provides a solid, durable base for decorative or protective coatings, minimizing efflorescence and reducing the risk of finish debonding.

Uses

- Suitable for various substrates such as concrete, cement and gypsum plaster, fairfaced concrete, lime-cement render, lightweight concrete and blocks, natural stone, and brick masonry.
- Suitable for interior and exterior uses, vertical and overhead applications.
- As a primer for silicone-based paints, waterproof coatings, acrylic coatings, textured renders, and decorative finishes.

Characteristics / Advantages

- Ready-to-use.
- Easy application by roller, brush, or spray.
- Penetrates very well through substrate pores without sealing and provides very high water repellency.
- Prevents mold formation and freeze-thaw damage.
- Invisible, does not form a film nor darken the surface.
- Provides a dust-proof surface.
- Non-flammable, solvent-free, and odorless.
- Enhances adhesion of subsequent coatings.
- Reduces the potential of efflorescence and staining from environmental pollutants.
- Highly resistant to weathering conditions.

Consumption

Approximately 0.10 – 0.15 L/m² per coat.

Note: This coverage is theoretical and may vary due to site wastage, substrate roughness/ porosity, and absorption rate.

Shelf Life and Storage

Shieldprotect SI has a shelf life of 12 months when stored in its original unopened packaging in dry conditions. Shelf life may be reduced if the recommended storage conditions changed.

Typical Properties

Color/ Appearance	Transparent liquid
Specific Gravity	1.02
Solid Content	13 – 16%
Drying Time	1 – 2 hours
Application Temperature	+5°C to +35°C

Packaging

Shieldprotect SI is supplied in 18 L drums.

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 clean from dust, oils, dirt, grease, curing compounds or any contaminants. Laitance shall be removed by mechanical means. Substrates should also be sufficiently cured to avoid any shrinkage cracks.

2. Mixing

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

3. Application

To achieve the perfect penetration property, the correct rate and method of application are necessary.

Shieldprotect SI can be applied by brush, roller, or low-pressure sprayer.

Number of coats :	2 coats are recommended
Overcoating time :	Allow to dry for a minimum of 1 – 2 hours (at 20°C) before applying the next layer.

For optimal adhesion, apply subsequent coatings within 3 days.

4. Cleaning

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

Limitations

- Apply only in dry conditions, at temperatures between +5 °C and +35 °C, with relative humidity below 80%.
- Avoid exposure to water for a minimum of 2–3 hours after application.

Technical Support

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

Address: Manaseer Group, 8th Circle, King Abdullah II St. 302
P.O. Box 925988 Amman, 11110, Jordan

Phone +962 6 5800600
Fax. +962 6 5833890

Email: info.shield@manaseer-ic.com
Website: www.manaseergroup.com

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