Shieldcoat AS100

High Quality, Acrylic Sealer and Topcoat

TECHNICAL DATA SHEET

Description

Shieldcoat AS100 is a ready-to-use, acrylic sealer and topcoat based on advanced polymers and additives, formulated to protect concrete and cement-based surfaces against UV and external conditions, and enhance the durability by creating a transparent, semi-glossy film and protective layer.

Uses

- Suitable for various substrates such as concrete, cementitious underlayments and floorings, decorative concrete finishes, stamped concrete, natural stone and pavers, cement-based terrazzo surfaces, and fairfaced concrete.
- Interior and exterior applications.
- Industrial, commercial, and residential applications.
- Parking lots and garages.
- High traffic walkways.
- Food processing areas.
- Warehouses and storage facilities.
- Can be used as a curing compound.

Characteristics / Advantages

- Easy to apply by brush, roller or sprayer.
- Dustproofer.
- Forms a water-repellent film unaffected by water, and freeze/thaw cycles.
- Excellent adhesion to cement-based substrates.
- Forms flexible and semi-glossy finish.
- Durable and resistant to UV and weathering conditions.

Shelf Life and Storage

Shieldcoat AS100 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

Shieldcoat AS100 is supplied in 5 and 18-L jerrycans.

Typical Properties

Appearance / Color	Transparent liquid
Specific Gravity @ 23°C	0.92 ± 0.01
Drying Time @ 23°C	Tack-free Time: 30 minutes Recoating Time: 1 hour Foot Traffic: 2 – 3 hours
Substrate/ Application Temperature	+5 to +35℃
Full Cure @ 23°C	7 days

Application Instructions

1. Surface Preparation

The substrate must be cured and free from dust, loose materials, surface contamination, and materials that may reduce bond or prevent adhesion.

2. Mixing

Shieldcoat AS100 should be stirred prior to use, to ensure a homogenous liquid.

3. Application

Apply the first coat evenly onto the surface using a suitable tool such as a brush, roller, or low-pressure airbrush (sprayer).

Allow the first coat to dry before overcoating (1 hour at normal conditions) and apply the second coat (if required) to provide a higher level of protection.

4. Cleaning

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

5. Curing

Curing is not normally necessary but freshly applied material should be protected from rain until becomes dry.

Consumption

For porous substrates, 0.24 – 0.27 L/m^2

For non-porous substrates, 0.10 – 0.15 L m^2

These rates are estimated and may vary due to site wastage and substrate condition/profile.

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.

Technical Support

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

Limitations

- Do not apply the product if the ambient temperature is less than 5°C.
- Do not apply **Shieldcoat AS100** on frozen surfaces, asphalt, or vitrified bases.
- 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 use.

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