

Shieldcure AB

Water-based Acrylic Concrete Curing Compound



Description

Shieldcure AB is a single-component, water-based acrylic curing compound, supplied as a low-viscous, milky white emulsion. It is designed to break down into a non-penetrating continuous film when comes into contact with a cement-based surfaces, acrylic protective coatings, and finishes and builds an impermeable film that eliminates excessive water evaporation, allowing for more efficient cement hydration and therefore less shrinkage and additional durability characteristics.

Uses

- Provides water-repellent surface.
- Essential for the hydration and curing of fresh concrete by reducing evaporation rate and preventing shrinkage.
- Used for large areas of concrete such as parking structures, driveways, patios, walkways, etc.
- Protective coatings and finishing layers can be applied directly after using **Shieldcure AB** without removing the curing compound layer.

Characteristics / Advantages

- Single component, non-absorbent, and ready to use.
- Suitable for horizontal and vertical concrete surfaces, in internal and external situations.
- Reduces permeability.
- Reduces the potential for surface cracking and shrinkage.
- Improves the durability of concrete.
- Water-based and non-flammable.

Standard Compliance

- ASTM C309 Type 1-D, Classes A, B
- AASHTO M 148 Type 1-D, Classes A, B

Packaging

Shieldcure AB is supplied in 5- and 20-liter pails or 200-liter plastic drums.

Typical Properties

Color	Milky white transforms into clear after drying
Appearance	Liquid
Specific Gravity @25 °C	1.00 ± 0.02
Water Retention (ASTM C156)	0.49 kg/m ²
Drying Time (ASTM C309-19)	45 minutes

Coverage

Approximately 3 – 5 m² per liter.

Shelf Life and Storage

Shieldcure AB 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.

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

Ensure the concrete surface is placed and free from standing water.

2. Application

Shieldcure AB can be applied using a low-pressure sprayer, brush, or roller. The curing process should start after the removal of formwork, or immediately after initial moist curing to the point where the concrete surface is free from water.

When the application is done using a sprayer, apply the material to the surface of fresh concrete after water evaporation and make sure that it is evenly distributed over the surface.

Spray **Shieldcure AB** over the freshly placed concrete and place the nozzle of the sprayer at a 30 – 45 cm distance. For cement-based mortars or surfaces, start the application immediately after de-shuttering.

3. Cleaning

Tools (Sprayer and nozzle) should be cleaned immediately with clean water after application.

Limitations

- Do not dilute with water or any chemicals.
- Do not apply if bleeding water is present on the surface.
- Protect surfaces from rain for not less than 4 hours after application.

Technical Support

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

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