

Shieldcure B2

Water-based Concrete Curing Compound



MICSHIELD®

Description

Shieldcure B2 is a white, water-based curing compound based on acrylic copolymers, used for retaining moisture and reducing evaporation rate in fresh concrete mixes during the early hardening stage. **Shieldcure B2** is applied directly over surfaces after removal of formwork, or after initial moist curing as a white film.

Uses

- Reduces water loss for concrete after removal of formworks.
- Can be used for all types of fresh concrete in both internal and external applications, including slabs, bridges, walls, and concrete pavements.

Characteristics / Advantages

- Improves durability for concrete by enhancing cement hydration.
- Economical and easy to apply.
- Prevents the loss of moisture content from concrete.
- Excellent improvement in water retention.
- Provides high resistance to cracking, shrinkage, and surface crazing.
- Improves resistance to abrasion and the corrosive actions of salts and chemicals.
- Reduces the risk of concrete surface dusting by promoting moisture retention and effective cement hydration process.

Standard Compliance

- ASTM C309 Type 2, Classes A, B
- AASHTO M 148 Type 2, Classes A, B

Shelf Life and Storage

Shieldcure B2 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	Milky white (Pigmented)
Appearance	Liquid
Specific Gravity @25 °C	1.05 ± 0.05
Water Retention (ASTM C156-20)	0.47 kg/m ²
Drying Time (ASTM C309-19) @23°C	40 minutes
Reflectance (ASTM E1347-20)	72%
VOC (USEPA 24)	14 g/L

Consumption

5 – 6 m² per liter by roller.

~ 9 m² per liter by sprayer

Packaging

Shieldcure B2 is supplied in 5- and 20-liter pails or 200-liter plastic 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. Application

Shieldcure B2 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 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.

Substrate and application temperatures should be in the range of +5°C to +45°C.

2. Cleaning

Tools should be cleaned immediately with clean water. Hardened material should be removed mechanically.

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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