

CEMCURE WBE

Water Based Concrete Curing Compound

Description:

CEMCURE WBE is a sodium silicate water-based resin modified concrete curing compound. It is formulated that when applied to freshly casted concrete it prevents rapid evaporation of water from the concrete surfaces.

CEMCURE WBE acts as a barrier retaining the mix water in the concrete to ensure proper reaction and cement hydration. The results is a high surface strength, high resistance to abrasion and protection from drying shrinkage. CEMCURE WBE is an environmentally friendly product.

Uses:

CEMCURE WBE is used as an effective and economical curing agent compared to the traditional Hessian, water and polythene curing system. It is suitable for all types of concrete surfaces, including the following applications:

- Curing of shear walls, slabs and columns newly casted.
- Concrete mixes enhanced with Micro silica and GGBS to ensure good curing.
- Can be applied for curing large areas effectively, such as pre-cast concrete, highways, decks, etc.
- Curing of Casted cement pipes
- Can be used as dustproof, clear sealer for concrete surfaces.

Advantages:

- Cost effective.
- Non filming effect. Plaster can be applied directly.
- Reduces surface cracking and shrinkage.
- Resistance to oil and grease.
- Serves as dust proofer/sealer for concrete casted floors.
- Ease of application, applied manually or by spray pump.
- Does not affect the adhesion of most types of painting systems to the treated surfaces.
- Uniform hydration which gives durable concrete.
- Water based, environmentally friendly product.

Instructions for Use:

Mixing:

CEMCURE WBE should be well stirred before each application. Do not apply CEMCURE WBE if temperature is less than 5°C. Do not dilute with water as the product is ready to use.

Application:

CEMCURE WBE should be applied uniformly by paint roller, soft bristled broom, or spraying machine to the surface of fresh concrete. The timing of application is important. CEMCURE WBE should be applied after setting of cement, immediately after evaporation of the surface water. The surface should be free of bleed water and the concrete surface sheen should not be seen. It is during this time that the concrete is most vulnerable to spalling, hair cracking, and other surface defects. In the case of vertical concrete elements, CEMCURE WBE should be applied immediately on removal of the formwork.

Apply CEMCURE WBE with a rate of 1 Liter per 10 m² of concrete surface. In certain cases, especially during high temperature or windy seasons, prevent the surface from drying to ensure thorough penetration. After the application of CEMCURE WBE, allow the curing compound to dry properly, do not apply any water to the coated surface.

CEMCURE WBE should never be applied on concrete which has started to dry out, otherwise the hydration mechanism will be seriously impaired.

Subsequent application as floor or wall coating systems using epoxy, polyurethane, bituminous and acrylic coatings, or tile fixing using latex modified tile adhesive can be done on concrete surfaces treated with CEMCURE WBE. It is however, recommended to check the adhesion of any particular application by carrying out a site trial test to ensure a satisfactory performance. For cement-based plaster applications, CEMCURE WBE cementitious key coat can be applied directly on the treated concrete surface.

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Standards:

CEMCURE WBE meets the moisture requirement of ASTM C309 on concrete.

TECHNICAL PROPERTIES	
Color	Clear
Density	1.15 Kg. /Lt.
Max. time for application	30 minutes@25°
pH	10-12
Temp. of application	+5°C min, +40°C max
Drying Time	4 hours at 30°C Depending on substrate condition

*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

Coverage:

CEMCURE WB coverage rate is approx. 10 square meters per liter at 100 micron wet film thickness.

*Coverage rate is an approximate value, and subject to actual site conditions.

Packaging:

CEMCURE WBE is supplied in 200 liter drums.

Storage Conditions:

Store in original packing in dry conditions away from direct sunlight.

Shelf Life:

CEMCURE WBE can be utilized within 24 months of production date if stored in proper conditions in unopened original packing.

Cleaning:

Used tools can be cleaned with water before the product dries.

Recommendations:

- Weather factors such as wind, heat greatly reduce the effectiveness of CEMCURE WBE.
- Use only on green, fresh poured concrete.
- Protect areas not intended for coverage. If contact occurs, clean immediately using water and a cloth or brush.
- Do not allow the product to puddle. White residue may form if CEMCURE WBE is over applied.
- Do not apply when ambient temperature is < 5°C.
- In spite that CEMCURE WBE is compatible with and provides good adhesion to most paints, asphalt and polymer modified cements, it is imperative that site testing be performed to determine the suitability for intended use.
- Do not use sprayers, which have been used to spray silicones or release agents.
- Ensure spraying equipment is cleaned thoroughly before use and residues of previous membranes are removed.
- In case of excessively hot conditions and/or drying winds, it is recommended that the applied coating of CEMCURE WBE is covered by a plastic sheet for the least the first 24 hours or consideration should be given to the use of high efficiency resin curing agent.
- CEMCURE WBE must not be applied before or during power floating operations.

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Health and Safety:

- Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapour or spray mist.

FIRST AID:

- Eyes: In the event of accidental splashes, flush with warm water and seek medical advice.
- Skin: Wash skin thoroughly with soap and water
- Inhalation: Remove to fresh air, keep patient rested
- Ingestion: Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to CEMCURE WBE Material Safety Data Sheet.

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