

# CEMCURE SB

## High Efficiency Resin Based Concrete Curing Compound

### Description:

CEMCURE SB is a resin modified non yellowing concrete curing compound, when applied to freshly casted concrete, prevents rapid evaporation of water from fresh concrete surfaces.

CEMCURE SB acts as a barrier, retaining the mix water in the concrete to ensure optimum reaction and cement hydration, high surface strength, dust free, and higher resistance to abrasion and protection from drying shrinkage.

### Uses:

CEMCURE SB 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 and can be applied in many applications such as:

- Commercial and industrial concrete surfaces for sidewalks, patios, multilevel parking decks, driveways and parking areas.
- Slabs, walls and columns newly casted.
- Concrete pavements for airport taxiways and harbours docks.
- Casted walls and slabs.
- Traditional concrete casting of cement pipes, slabs, walls and columns.
- For exterior concrete surface to provide permanent durable, long-lasting finish that has improved resistance to chemicals, oil, grease, deicing salts and abrasion.

### Advantages:

- High curing efficiency as it produces an impermeable seal, yielding optimum moisture retention.
- Provides a tough, durable, uniform, moisture impermeable, long-lasting clear and non-yellowing film on exterior concrete surfaces.
- Minimizes shrinkage, dusting, spilling and other defects common to improperly cured concrete.

- Cures and seals freshly placed concrete simultaneously in one application.
- Improves the concrete surface resistance against chemicals, oil, grease, and abrasion.
- Serves as dust proofer/sealer for concrete casted floors.
- Ease of application, applied manually or by a manual spray pump.
- Can be pigmented as white color coating.

### Instructions for Use:

#### Mixing:

CEMCURE SB should be gently stirred immediately prior to use to ensure uniformity of material as supplied. Do not add water or solvent to the product or dilute, Product is ready to use directly. Product is flammable, avoid direct sunlight and placing in high temperatures.

#### Application:

CEMCURE SB 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 SB 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 SB should be applied immediately on removal of the formwork. Application on damp surface is preferable as dry concrete surface may absorb CEMCURE SB, which may cause difficulty to remove the dry film at a later stage

Apply CEMCURE SB with a rate of 7.0 – 9.0 m<sup>2</sup>/Ltr. In certain cases, especially during high temperature or windy seasons, rate of application may be increased to avoid the surface from drying to ensure thorough penetration.

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After the application of CEMCURE SB, do not apply any water to the coated surface. Allow the applied product to cure in order to form an integrated strong film. Avoid compaction or vibration activities close to the treated areas as this will break the integrity of the cured film.

CEMCURE SB 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 certain surface finishing can be done on concrete surfaces treated with CEMCURE SB. 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 further technical information on specific applications, contact MATEX Technical Office.

## Standards:

- ASTM C 309, Class B  
Type 1: clear; Type 2: white
- BS 7542
- ASTM C156

Technical Properties	
Color/Appearance	Clear liquid, white
Density	0.90 ± 0.03 kg/lit
Curing Efficiency	≥90%
Moisture Loss	<0.55 kg/m <sup>2</sup>
Drying Time	2 hours
Flashpoint	>30°C

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

## Coverage:

CEMCURE SB coverage rate is 7.0-9.0 square meters per liter depending on porosity and texture of surfaces.

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

## Packaging:

CEMCURE SB is supplied in 20 liter pail and 200 liter drums.

## Storage Conditions:

Store in original packing in dry conditions away from direct sunlight. Damaged packaging, high humidity or extreme temperatures may reduce the shelf life. Store between 10°C to 30°C.

## Shelf Life:

CEMCURE SB can be utilized within 12 months of production date if stored in proper conditions in an unopened original packing.

## Cleaning:

Equipment used should be cleaned promptly with ARMOSOLVENT before product dries. Hardened materials can only be removed mechanically.

## Remarks:

- Concrete containing calcium chloride will look dark when treated with CEMCURE SB.
- Weather factors such as wind, heat greatly reduce the effectiveness of CEMCURE SB. The product should not be applied during high temperature conditions in direct sunlight. These conditions cause rapid evaporation, which does not allow the film to form properly.
- Use only on green, fresh poured concrete.
- Protect areas not intended for coverage. If contact occurs, clean immediately using solvent and a cloth or brush.
- CEMCURE SB should not be applied during rainy days.
- CEMCURE SB should only be applied in well ventilated areas.

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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 SB Material Safety Data Sheet.

MATEX Rev.05-0223

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