



Emcoril® WE Std

Wax Emulsion liquid membrane forming Curing compound for concrete

Product Properties

- **Emcoril® WE Std** can be used everywhere, where an efficient curing is required. It is very suitable for large areas of concretes that are directly exposed to sunlight, heavy winds and other environmental influences.
- Minimizing the shrinkage cracks on account of curing at early stages
- Optimal hydration leading to stronger end-hydration products
- Helps achieve proper compressive and flexural strengths
- Single application thereby saving of labor costs
- Enables better quality control at sites
- Reduces the surface dusting
- Increases the surface hardness of the concrete
- Does not affect the normal setting process of cement
- Ideal for curing at places having water shortage, Eliminates the need for 28 days water spraying, hessian, PE films, etc.

Areas of Application

- Concrete roads bridges and Canal linings.
- Dams and other irrigation related structures
- Sport areas and ice rinks
- Precast piles, pipes and other precast components
- Roof decks, slabs, retaining walls etc.
- Prestressed girders, beams etc.
- Overhead repair areas and inaccessible areas
- Chimneys, cooling towers and other tall structures

Application Notes

General

The strength and durability of concrete does not only depend upon the correct composition and placing of concrete but also upon the correct curing. The principle of curing is to prevent the evaporation of the capillary water in the concrete so that sufficient water is available for complete hydration that leads to better end hydration products, thereby avoiding the surface dusting and plastic shrinkage. The conventional methods of curing like water spraying, covering with wet burlaps, polyethylene sheets etc., are not only time consuming but also starts after the initial evaporation of water and after the appearance of the first cracks. The ideal curing technique should begin as soon as possible after the casting of concrete.

Emcoril® WE Std are membrane forming curing compounds, to be brushed or sprayed on the fresh concrete only once, at the very initial critical hardening period of concretes or mortars. **Emcoril® WE Std** curing compounds form a seamless film on the surface of the freshly cast concretes and mortars, which arrests the evaporation of water from the capillaries and prevents quick drying of the concrete avoiding the cracks and enabling the concrete to hydrate efficiently. It is physiologically harmless and does not contain any constituents that would affect the concrete. **Emcoril® WE Std**, a white-pigmented curing compound aids in reflection of UV rays as well as enables the quality controller at site to ascertain that the full area is covered on account of its white color. It is very suitable for areas directly exposed to extreme sunlight and wind & conforms with ASTM C 309 specifications.

Instruction for use

Emcoril® WE Std curing compounds are water-based wax emulsions and therefore it is necessary to shake the containers thoroughly before use. **Emcoril® WE Std** should be applied as soon as possible after casting of concrete and immediately after the disappearance of water sheen from the surface. The time period is preferably within about half an hour depending upon the temperatures. **Emcoril® WE Std** should not be applied when standing water is present. If concrete has lost some of the surface water, it is recommended to fog down the surface before application of **Emcoril® WE Std**. For curing of concrete, which is retained on the formworks, the concrete should be wetted thoroughly after opening the shuttering and the **Emcoril® WE Std** should be sprayed or brushed. The application can be carried out using normal knapsack sprayers (insecticide tree sprayers) having suitable nozzle. In case of larger areas motorized continuous spraying, devices can be used. **Emcoril® WE Std** can also be applied by normal brushes or rollers. The nozzle of the spraying device should be held about 0.7 to 1.0 m distance from the surface and it should be ensured that the complete area is covered. The pump pressure must be maintained throughout the operation to obtain a fine spray. The nozzles should be cleaned intermittently either by water or white spirit. It should not be used on surfaces where plastering or mortar is planned in a near future. If used under such conditions, the surfaces should be thoroughly cleaned by mechanical means or hot water.

**Technical Data For Emcoril® WE Std**

Characteristic	Unit	Value	Comments
Density	Kg/dm ³	Approx. 1.00	
Consumption	g/m ²	150-250	
Drying Time	Hrs	Approx 3.00	+20°C

Product Characteristics for Emcoril® WE Std

Type of Product	Membrane forming Curing Compound
Form	Liquid
Colour	White, translucent
Shelf Life	12 months from date of Manufacture
Delivery	230 Kg drum and 30 Kg and 50Kg Pail
Storage	In Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost
Disposal	Empty packs completely and dispose off carefully to protect our Environment

Safety Advice

Please Take notice of the safety information and advice given on the packaging labels, safety information sheets and General Application Advice

Note: - The information on this Data Sheet is based on our experiences and correct to the best of our knowledge. It is However, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our Data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are binding if given in written form. The accepted engineering rules must be observed at all times.

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