

# Data Sheet

## **SAFECURE SUPER**

### Water Based, High Efficiency Concrete Curing Compound

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#### **DESCRIPTION**

**SAFECURE SUPER** is a spray-on temporary membrane to retain moisture in freshly placed concrete. It is formulated to prevent evaporation of the gauging water and provides an economical and efficient method for curing concrete.

**SAFECURE SUPER** is a white, low viscosity liquid which has an alkali reactive emulsion breaking system. This system ensures that the emulsion breaks down to form a non-penetrating continuous film immediately upon contact with a cementitious surface. This impervious film prevents excessive water evaporation which in turn permits more efficient cement hydration, reducing shrinkage and increasing durability. The membrane once formed is degraded when exposed to ultraviolet light over a period of time depending on the conditions of exposure.

#### **BENEFITS**

- Reduces surface shrinkage and cracking by controlling moisture loss from exposed surfaces.
- Increases water resistance.
- Enables cement to hydrate more efficiently.
- Provides hard wearing surface and prevents dusting.
- Non toxic and non flammable.
- Eliminates need for damp hessian, sand or polythene

#### **CURING EFFICIENCY**

Water loss 0.17 Kg/m<sup>2</sup> applied at 245 ml/m<sup>2</sup> which is considerably more efficient than the maximum permissible water loss of 0.55/Kg/m<sup>2</sup> in ASTM C 309-81 and 0.39 kg/m<sup>2</sup> in US Federal Specification TT C 800A. 86% when applied at 270 ml/m<sup>2</sup>, Modified Dept. of Transport specification for Road and Bridge works: Clause 2709. After a period of approx. 28 days, the film formed on the concrete surface will begin to degrade. The rate of degradation will depend upon initial membrane thickness and the degree of exposure to ultra violet light.

Does not fall within the scope of BS 7542:1992 - Method of test for curing compounds for concrete, but approximates to a curing efficiency of 90%.

#### **INSTRUCTIONS FOR USE**

**SAFECURE SUPER** is spray applied to the surface of newly placed concrete. The concrete should be free from surface water and the nozzle of the spray should be held approx 450 mm from the concrete surface and passed back and forth to ensure complete coverage. The pump pressure should be maintained at a level producing a fine spray.

Rate of application will be 160 to 270 ml/m<sup>2</sup> (4 - 6 m<sup>2</sup>/ltr.)

#### **SPRAYER CLEANING**

Immediately after spraying, clean line and nozzle thoroughly with water.

#### **TYPICAL DATA**

Type: Conforms to ASTM C309-81 Type 1 Class A  
Touch Dry Time: 2 to 4 hours dependent upon temperature and wind  
Hard Dry Time: 18 to 24 hours dependent upon temperature and wind  
Water retention: ASTM C156 Pass

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#### **PACKAGING**

210 and 25 litre containers

#### **STORAGE**

Keep containers sealed. Store in dry conditions at room temperature and away from direct heat. Protect from frost. When stored correctly in unopened container, storage stability is 2 years.

#### **HEALTH AND SAFETY**

Avoid physical contact with material. If contact with skin should occur wash with soap and water. If splashes should affect eyes, bathe immediately with clean water and if discomfort persists seek medical advice.

Reference should be made to the separate **SAFECURE SUPER** Health and Safety literature.