

## CONSTRUCTION SOLUTIONS - DATA SHEET

# CONCRETE CURE WB

## WAX BASED CONCRETE CURING COMPOUND

**USES:**

Provides a spray-on temporary membrane to retain moisture in concrete for effective curing. Used for concreting generally, but especially useful for large areas of concrete construction such as runways, motorways or bridgeworks.

**ADVANTAGES:**

- Reduces surface shrinkage and cracking by eliminating moisture loss from exposed areas.
- Enables cement to hydrate more efficiently
- Provides hardwearing surface and prevents dusting
- No surface wetting required prior to application to vertical surfaces
- Easy application – reduces labour costs
- Non toxic and non flammable
- Eliminates the need for damp hessian, sand or polyethylene

**DESCRIPTION:**

CEMIX CONCRETE CURE WB is a white, low viscosity wax emulsion which incorporates a special alkali reactive emulsion breaking system. This ensures that the emulsion breaks down to form a non-penetrating continuous film immediately upon contact with a cementitious surface. This impervious film prevents excess water evaporation which in turn permits more efficient cement hydration thus reducing shrinkage and increasing durability. The membrane once formed is designed to degrade (via a photoinitiator in the clear formulation) when exposed to ultra violet light over a period of time dependent on conditions of exposure.

**PROPERTIES:****COLOUR**

Bulk liquid - white

Dry Film - clear

Specific gravity at 20°C: 0.98 - 1.00

Viscosity: Brookfield Model RVF N1/S10 at 20°C

Both grades 8-15 cp

Minimum application temperature: 5°C

Curing efficiency: Water loss 0.17kg/sqm applied at 245ml/sqm which is considerably more efficient than the maximum permissible water loss of 0.55kg/sqm in ASTM C309-74 and 0.39kg/sqm in U.S. Federal Specification TT-C-800A. 86% when applied at 270ml/sqm, Modified Department of Transport Specification for Road and Bridge Works: Clause 2709. Membrane breakdown: After a period of approximately 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.

**INSTRUCTIONS FOR USE:****APPLICATION:**

CEMIX CONCRETE CURE WB should be spray applied to the surface of newly placed concrete. The compound should be applied as soon as possible after the concrete is free from surface water. The nozzle of the

spray should be held approximately 450mm from the concrete surface and should be passed back and forth to ensure complete coverage. The pump pressure should be maintained at a level producing a fine spray. NOTE: Do not use CONCRETE CURE WB for any concrete work receiving subsequent coatings or renders. CEMIX CONCRETE CURE WB should not be continuously re-circulated through high shear gear pumps when used in concrete train application. If continuous re-circulation is essential the sprayer should be fitted with a low shear diaphragm pump. Rate of application depends on requirements but is typically within the range 169 to 270ml/sqm (6.0 - 4.0sqm/litre).

**EQUIPMENT:**

For the application of CEMIX CONCRETE CURE WB, various types of spraying equipment can be used, i.e. knapsack or motorised sprayers.

**CLEANING:**

Immediately after use the spraying equipment should be cleaned out with water. If the spray nozzle becomes blocked with wax particles these can easily be removed using white spirit or a similar fluid.

**STORAGE:**

CEMIX CONCRETE CURE WB has a shelf life of 6 months when stored at temperatures between 4°C and 35°C. Containers should be kept airtight to prevent surface evaporation. Freezing or prolonged exposure to direct heat or sunlight must also be avoided.

**PACKAGING:**

CEMIX CONCRETE CURE WB is packed in 5 litre bottles, 20 litre pails and 210 litre drums.

**PRECAUTIONS:**

CEMIX CONCRETE CURE WB is non-toxic and non-corrosive. If splashed into the eyes, wash eyes with copious amounts of clean water immediately and seek medical attention. If ingested, drink plenty of water and seek medical attention. It is advisable to wear the appropriate safety equipment when spraying this product – goggles, respirator and gloves.

**SAFETY, SPILLS AND LEAKS:** Keep out of sewers and storm water and dispose of any leftover as trade waste in accordance with local authority guidelines. Plastic containers can be recycled after a thorough rinse and wash.

**DISCLAIMER**

*Please note: recommendations and advice regarding the use of this product are to be taken as a guide only. Other than as appears on this product packaging, CEMIX LTD does not give any warranty express or implied as to the suitability of this product for your particular use, because the usage of this product is beyond the control of CEMIX LTD. If you need advice concerning the use or suitability of this product for your particular application, please contact CEMIX LTD first.*