

CURACOAT -WB

NON-SOLVENT SPRAYABLE CURING COMPOUND BASED ON AN AQUEOUS WAX EMULSION

DESCRIPTION

CURACOAT -WB is a white, low viscosity wax emulsion which incorporates a special 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 thus reducing shrinkage and increasing durability. The membrane once formed is designed to degrade (via a photo initiator in the clear formulation) when exposed to ultraviolet light over a period of time depending on conditions of exposure.

CURACOAT -WB is available in two grades:

- 1) CLEAR (ASTM C309 Type 1) Class A grade
- 2) WHITE PIGMENTED (ASTM C309 Type 2) Class A & CRDC - C-300 grade

USES

CURACOAT -WB provides a spray-on 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 surfaces
- Increases concrete strength and dusting resistance
- Eliminates the need for damp hessian, sand or polythene
- Rapid film formation
- Enables concrete to hydrate more efficiently
- Non-flammable; non-toxic
- Single application.

- Cost effective.
- Initial white colour shows areas of use.
- Cured film is clear or white depending on the grade and is water repellent.
- Pigmented compounds give solar reflective film.
- High curing efficiency.

TYPICAL PROPERTIES

Colour	CLEAR	WHITE PIGMENTED
Bulk Liquid	White	White
Dry film	Clear	White
Specific gravity at 20° C	0.98	1.00

Minimum application temperature : 5° C.

Curing efficiency: (applicable to both grades) Water loss 0.19 kg/m² applied at 235 ml/m², which is considerably more efficient than the maximum permissible water loss of 0.55 kg/2 in ASTM C309 and 0.39 kg/m² in US Federal Specification TT -C800 A. 88% when applied at 280 ml/ m², Modified Department of Transport Specification for Road and Bridgework: Clause 2709.

Water Retention - For Both Grades: Pass as per ASTM C156.

Membrane break down: (applicable to both grades) 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.

Light reflectance: 60-80% for white pigmented ASTM C309.

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INSTRUCTIONS FOR USE

CURACOAT -WB must be well stirred before use. CURACOAT -WB range should be spray applied as evenly as possible to the freshly placed concrete. For horizontal surfaces the CURACOAT -WB should be applied as soon as the initial surface sheen has disappeared from the concrete surface. In the case of formed concrete the CURACOAT -WB should be applied immediately on removal of the formwork, i.e. at such time as the concrete is as green as possible. To assist breakdown of the CURACOAT -WB film on vertical and formed surfaces, it is essential to dampen down the concrete with clean water prior to application.

PACKAGING

(Both Grades) CURACOAT -WB is available in 20 ltr pail and 205 litre drums.

Coverage: Rate of application depends on requirements but is typically within the range 160 to 280ml/m².s

Equipment: For the application of the CURACOAT -WB various types of spraying equipment can be used i.e. Knapsack or motorised sprayers. 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 similar fluid.

Fire: CURACOAT -WB is water based and is non- flammable.

STORAGE

CURACOAT -WB has a shelf life of 12 months when stored at temperature between 4°C and 35°C. Containers should be kept airtight to prevent surface evaporation. Freezing or prolonged exposure to direct heat or direct sunlight must also be avoided.

Note: Mix well before use

HEALTH AND SAFETY

CURACOAT -WB is non-toxic. It is advisable to wear goggles when spraying. Inhalation of the spray should similarly be avoided. Should excessive skin contact with compound occur the area of skin should be washed with soap and water and a skin conditioning cream applied. If CURACOAT -WB comes into contact with the eyes they should be flushed with clean water for ten minutes. If any irritation persists, medical attention should be sought. If the compound is swallowed do not induce vomiting but obtain medical assistance immediately.

TECHNICAL SERVICE:

Our Technical Service Department is available at any time to advise you in the correct use of this product or any other Ahlia products.

Note : The information presented herein is based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control.

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