

ShaliCure[®] AL WB

Aqueous Aluminium Pigmented Sodium Silicate Concrete Curing Compound



STP Limited

Description

ShaliCure[®]AL WB is a one-part water-based concrete curing compound based on sodium silicate pigmented with Aluminium. When cured, forms a non penetrating and concrete pore blocking film which prevents water loss from the fresh concrete thereby enabling more efficient cement hydration and limits early age cracking, drying shrinkage.

Approvals / Standards

ASTM C 309-81 / BS 7542

Product Information

Form, Colour	Silver coloured liquid
Handling & Storage	The material must be stored in a shaded area with no exposure to sunlight and UV. The containers should be protected from all sources of heat and ignition. Protect from freezing.
Packaging	Available in 20 & 250 kg sealed drums.
Shelf Life	6 months when stored in unopened sealed conditions away from heat and sunlight at 5 to 38°C.
Handling Precautions	The material is non-hazardous, non-flammable and therefore can be disposed of in any regular disposal areas. In case of contact with human skin wash with any soft solvents. Seek medical assistance immediately in case of any allergy.

Technical Characteristics at 27°C, 55% RH

Property	Result
Density, gm / cc	1.20 ± 0.05
Drying time, hours	2 - 3
pH	9 - 11
Coverage, m ² / L / coat **	4 - 6

** Will vary depending upon surface profile, surface porosity, wastage

All values given are subject to 5 - 10% tolerance

Field of Application

ShaliCure[®]AL WB is particularly useful in large areas of exposed concrete such as:

- Roof decks
- Canals, dams, water channels and other water retaining structure
- All concrete structure like retaining walls, columns, roofs
- Other concrete floors

Advantages

- Reduced loss of water of new concrete while setting
- Improved durability of the surface
- Reduced risk of cracking
- Environmentally friendly (Zero VOCs)

Application Methodology

➤ Surface Preparation

- Ensure the concrete surface is completely free of stains, oils, etc. to obtain good adhesion of **ShaliCure[®]AL WB**.
- **ShaliCure[®]AL WB** should be applied onto the surface of newly placed concrete, as soon as possible, after the concrete is free from surface water.

➤ Material Preparation

- Stir **ShaliCure[®]AL WB** by a slow speed mixture fitted with a suitable mixing paddle to ensure a homogenous mix. Product is supplied ready to use.

➤ Application of Material

- Spray **ShaliCure[®]AL WB** evenly as possible over the freshly concrete as soon as possible after final toweling when the surface water has disappeared.

- If spray equipment is not available, apply with soft brush, broom or wide nap rolled as soon as the concrete surface is hard enough.
- For vertical surface, apply **ShaliCure®AL WB** immediately after the formwork has been removed.
- Care must be taken when applying **ShaliCure®AL WB** to ensure complete and even covering.
- After application the area must be protected from rain for at least 2 - 3 hrs.

Precautions

- Mixing water is totally prohibited.
- When applying, leave no dry spots in order to have homogenous performance. Touch up where necessary.
- In low temperatures (below +10°C) the product may thicken and be difficult to spray.
- Ensure spraying equipment is cleaned thoroughly before use and residues of previous membranes are removed.
- Immediately wash over-spray from glass, aluminium or highly polished surfaces with water to avoid etching of surfaces.

Value base of product data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

Health & Safety

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent **Material Safety Data Sheet**.

Avoid contact with skin/eyes and avoid swallowing.

- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

Cleaning & Maintenance

- Clean all tools immediately after use with STP Thinner only. Do not allow the material to harden. In case of change over from Solvent Based to Water Based, the application equipment including intermediary storage tank, must be thoroughly cleaned by STP Thinner first and then by water to prevent any clogging.



Product Range

- Waterproofing & Insulation
- Road Surfacing
- Sealants & Adhesives
- Pipeline Coatings
- Protective/Anti-Corrosion Coatings
- Epoxy and Flooring
- Grouts and Admixtures (GARA)
- RestoFix - Repair/Rehabilitation
- Other Construction Chemicals



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