JOLUKA

CURING COMPOUND

PRODUCT DESCRIPTION

JOLUKA CURING COMPOUND is a water-based slightly viscous acrylic emulsion solution which dries to a colourless stain-free surface finish when applied to the concrete.
Note: On over- application, a slightly glassy concrete surface finish can result.

SPECIFICATION TYPE

AASHTO M148 (Hardening), National Water Council approved 821052 G8. Approved for use on structures to receive potable water.

TYPICAL APPLICATIONS

JOLUKA CURING COMPOUND is an economical method of assisting efficient concrete curing. The presence and retention of water in concrete is essential to ensure adequate strength development and to minimize initial plastic shrinkage crack development.

Unlike conventional surface film forming membranes, JOLUKA CURING COMPOUND acts chemically with the hydroxides produced by hydration of cement in concrete thus giving a dense, pore-filling, crystalline structure which in turn reduces the moisture evaporation rate from the concrete surface. It should be noted that whilst JOLUKA CURING COMPOUND is effective in improving moisture retention, the curing Efficiency Index is lower than that of conventional resin film-forming membranes (see data sheet on our JOLUKA Resin Curing Compound range).

Therefore, where high curing Efficiency Index Rates are required, the JOLUKA Resin film-forming membrane compounds should be considered. Bear in mind that should subsequent surface coatings be required, the time lapse involved with resin based membranes is substantially longer.

The selection of the correct curing membrane grade is dependent on specification requirements and on job site conditions

ADVANTAGES

- *Economical, single application*
- *Reduces incidence of shrinkage cracks*
- *Promotes better strength gain characteristics*
- *Useful as a dust-proofer & surface hardener particularly on floor areas*
- *No film breakdown period involved*
- *Does not interfere with subsequent concrete surface treatments*

PIGMENTATION

JOLUKA CURING COMPOUND is also available with a fugitive dye to indicate areas where the curing compound has been applied. It then fades after 2-3 days exposure.

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MECHANICAL/PHYSICAL PROPERTIES

Appearance	*Clear, slightly viscous liquid*
Specific Gravity	*1.0 at 20°C*
Flashpoint	*None*
Finished Film	*Normal application: Clear* *On over-application: Glossy effect*
Shelf Life	*Up to 2 years when stored in accordance with manufacturer's instructions*
Freezing Point	*0°C*
Chloride Content	*None*
Toxicity	*None*

DIRECTIONS FOR USE

JOLUKA CURING COMPOUND should be spray applied to freshly cast horizontal concrete surfaces immediately after the initial surface water sheen has disappeared. For vertical surfaces the JOLUKA CURING COMPOUND can be applied immediately to the "as stripped' concrete surface (there is no prerequisite to damp down the surface prior to application.

Coverage

The recommended application rate (preferably by spray applicator) is 8.5m2 / litre.

Subsequent Surface Finishes

The main advantage in using JOLUKA CURING COMPOUND is that it will not interfere in any way with subsequent surface treatments for concrete, i.e. paints, emulsions, sealants, adhesives, renders, tile adhesives etc If in doubt please contact JOLUKA.

Equipment Care

All equipment should be cleaned with water after use.

PACKAGING

Supplied in 25 or 200 litre metal or plastic drums.

SPECIFICATION CLAUSE

Freshly placed exposed concrete shall be cured by spray application with JOLUKA CURING COMPOUND or similar approved and manufactured to the following specifications:

- *Specific Gravity at 20°C (sheen cup) 1, 0. Compliance with specification type AASHTO M148 and National Water Control Approval 8104MX (Great Britain) Composition*
- *High molecular weight acrylic water based solution*
- *JOLUKA CURING COMPOUND is to be applied to the concrete (indicate) at a coverage range of 8,5m2 per litre strictly in accordance with the manufacture's instructions.*

QUALITY ASSURANCE

JOLUKA (Pty) Ltd production and testing programmes comply with local and international testing standards. These stringent testing requirements comply to performance specifications for Concrete Curing Compounds.