

## Technical data sheet

# CHRYSO® Cure Acrylic

## Curing Compound – Water based acrylic emulsion

### Description

**CHRYSO® Cure Acrylic** is a water-based slightly viscous acrylic emulsion solution which dries to a colourless stain free surface when applied to concrete.

### Standards

**CHRYSO® Cure Acrylic** complies to the performance specifications of ASTM C309.

### Advantages

- **CHRYSO® Cure Acrylic** is compatible for water retaining structures (potable water).
- Economical, single application reduces incidence of shrinkage cracks.
- Promotes better strength gain characteristics.
- Useful as a dust-proofer and surface hardener (particularly on floor areas).
- No film breakdown period involved.
- Does not interfere with subsequent concrete surface treatments (paints, emulsions, sealants adhesive, renders, tile adhesives etc.).

### Application guidelines

#### Use

- **CHRYSO® Cure Acrylic** is an economical method to assist in efficient concrete curing.
- The product acts chemically with the hydroxides produced by the hydration of cement to form a dense porefilling crystalline structure that in turn reduces the water evaporation rate from the concrete surface.
- The presence and retention of water in concrete is essential to ensure adequate strength development and minimise initial plastic shrinkage crack development.

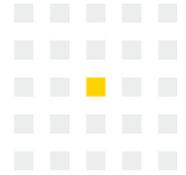
### Physical and chemical properties

- Physical state: Liquid
- Specific gravity (25° C): >1
- pH: (where a pH measurement is possible): 10
- Solubility in water: dilutable

- It should be noted that while **CHRYSO® Cure Acrylic** is effective in improving moisture retention, the Curing Efficiency Index is lower than that of conventional resin film-forming membranes.
- Therefore, where a high Curing Efficiency Index is required, one should select a resin film forming membrane compound (ask a **CHRYSO** technical sales representative for more information on other products within the **CHRYSO® Cure range**).
- Bear in mind that should subsequent surface coatings be required, the time lapse involved with resin based membranes is subsequently longer.

### Directions

- Dosage:
  - The recommended application rate (preferably by a spray applicator) is 5 m<sup>2</sup>/ ℓ.
  - Over application may result in a slightly glassy concrete surface finish.
- Horizontal surfaces:
  - **CHRYSO® Cure Acrylic** should be applied to freshly cast horizontal surfaces immediately after the initial surface water sheen has disappeared.



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### ■ Vertical surfaces:

- **CHRYSO® Cure Acrylic** should be applied immediately to the 'as stripped' concrete surface (there is no prerequisite to damp down the surface prior to application).

### ■ Equipment:

- All spraying equipment should be cleaned with water after use.

### **Packaging**

- 25 litre metal or plastic drums.
- 200 litre metal or plastic drums.

### **Health and safety**

- **CHRYSO** will provide onsite assistance when requested.
- For more information, please refer to the material safety data sheet.

Disclaimer: The information contained in this document is given to the best of CHRYSO's knowledge and is the result of extensive testing. However, this document will not under any circumstances be considered as a warranty involving CHRYSO's liability in case of misuse. Tests should be carried out before any use of the product to ensure that the methods and conditions of use of the product are satisfactory. CHRYSO specialists are at the disposal of the users in order to help them with any problems encountered.