

DATA SHEET NO. 3011-500**CRISTALLUM****Premium, Clear, Water-Based Concrete Curing Compound****DESCRIPTION**

CRISTALLUM is a clear, water-based, dissipating concrete curing compound formulated for use on interior, exterior, vertical, and horizontal concrete surfaces. Once applied, CRISTALLUM forms a premium-grade membrane that retains an optimum amount of water in freshly placed concrete for proper hydration of the concrete. CRISTALLUM fills a critical performance gap in curing compounds for high-end concrete applications where visual appearance during the curing period is a priority.

USES

CRISTALLUM can be used on both interior and exterior, vertical and horizontal applications where aesthetic is of a prime importance during the dissipation process. Paint, resilient tile, or resilient flooring may be applied on concrete cured with CRISTALLUM, once the product has dissipated and/or has been properly removed. Because of the wide variety of coatings, paints, adhesives, and toppings available, contact the manufacturer of the flooring system or subsequent coating or topping for application approval over concrete cured with resin-based curing compounds. A small test application is always recommended.

FEATURES/BENEFITS

- When properly applied, CRISTALLUM produces a premium-grade film, which optimizes water retention.
- CRISTALLUM dries to a clear film.
- Ideal for use where aesthetic is of prime importance during the curing period.
- Furnished as a ready-to-use, true water-based compound.
- Produces hard, dense concrete ... minimizes hair checking, dusting, and other defects.
- Offers a compressive strength significantly greater than improperly cured or uncured concrete.
- Increases tensile strength for greater resistance to cracking and surface crazing.
- Improves resistance to abrasion and the corrosive actions of salts and chemicals

- Minimizes excessive shrinkage

PACKAGING

18.9 Litre Pails
208.2 Litre Drums
1041 Litre Totes

COVERAGE

Approximately 4.91 m²/L. Coverage is approximate and may vary depending on surface finish/texture, concrete condition, climatic conditions, etc. Always apply to a test area first to determine actual coverage rate before full-scale application.

SHELF LIFE

When stored indoors in original, unopened containers at temperatures between 4° - 32° C, optimum performance and best use is obtained within one year of date of manufacture.

SPECIFICATIONS/STANDARDS

- AASHTO M 148, Type 1, Classes A & B (Type 1-D also available)
- ASTM C309, Type 1, Classes A & B (Type 1-D also available)
- Complies with Canada VOC Concentration Limits for Architectural Coatings Regulations

APPLICATION

Mixing ... For optimum performance, gentle mixing or agitation is recommended. **CAUTION: TO AVOID FOAMING, DO NOT MIX EXCESSIVELY. DO NOT THIN.**

Continued over ...

Application Method ... Application equipment must be clean and free of all previously used materials. Apply in a uniform film to horizontal surfaces as soon as the surface water disappears and the surface will not be marred by walking workmen. On vertical surfaces, apply promptly after the forms are removed. CRISTALLUM may be applied with a typical commercial hand or power sprayer, such as a Chapin 1949. Use a spray nozzle that produces a flow 1.9 LPM under .276 MPa of pressure. An even spray pattern/application is essential to the aesthetic and final appearance of the concrete. Be mindful of clogged or partially clogged spray tips that spray CRISTALLUM in an uneven and non-uniform pattern. Do not allow the spray nozzle to drip on fresh concrete. Drips and uneven spray patterns apply higher concentrations of the film, which may cause the cement to hydrate at different rates. Removal of the film will not change the spray patterns mirrored in the concrete surface from the cement hydrating at different rates.

Drying Time ... Typically dries in approximately 1 - 2 hours, depending on jobsite conditions (temperature, % relative humidity, wind, etc.). Restrict foot traffic for at least four hours. Twelve hours is preferable.

Cleanup ... Prior to drying, cleanup can be accomplished with soap and water. Once dried, use mineral spirits or other suitable petroleum solvent.

PRECAUTIONS

KEEP FROM FREEZING. Do not apply if air and/or concrete temperature is less than 4° C. Improper or over-application may increase the amount of time necessary for the film to dissipate from the surface. DO NOT MIX OR DILUTE WITH ANY OTHER PRODUCTS OR LIQUIDS. Residual membrane must be thoroughly removed prior to painting, topping, or any subsequent treatment. Do not apply paint, resilient flooring, or any other subsequent coatings or toppings without first checking the specifications and securing approval from the manufacturer of the product being applied over concrete cured with CRISTALLUM. A small test application is always recommended, prior to full-scale application. The CRISTALLUM membrane may take longer to dissipate if overapplied or has had limited exposure to UV light and environmental conditions, etc.

HEALTH AND SAFETY

Direct contact may result in mild irritation. Read and follow all application, precaution, label, and health and safety information prior to use. Refer to Safety Data Sheet for complete health and safety information.

MASTERFORMAT NUMBER AND TITLE

03 39 23 - Membrane Concrete Curing

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