



TECHNICAL DATA

PRODUCT

CURE & PENETRATING SEALER (CPS). A colloidal Silicate base subsurface barrier.

ADDRESS :

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DESCRIPTION/USE/LIMITATIONS

CPS is a cloudy white, water base, Colloidal Silicate, which internally (integrally) seals Portland cement concrete with a subsurface barrier. CPS is a permanent application that can be applied to existing concrete or newly placed concrete. When CURE & PENETRATING SEALER (CPS) is applied to concrete, it penetrates deeply below the surface porosity and capillary system reacting with concrete's unbound (free) constituents, such as alkali and/or inactivated calcium hydroxide residue. This unique reaction converts the CPS liquid, (which is virtually zero in solids) into a 100% solids colloidal silicate precipitate (gel) that is internally generated and very insoluble. This CPS gel forms and occupies the concrete's "surface" accessible porosity and internal tiny voids. The application of CPS will enhance the concrete's overall integrity as it supplements, densifies, waterproofs, and internally detoxifies without effecting the concrete's surface traction or bondability of other surface applications.

CPS as a cure method: CPS as a curing method is equal to or even better than water curing methods. When CPS is used as a curing method, ingredients are added to the existing capillary mix water allowing for a more complete hydration reaction process. This will result in additional hydrate product to fill the voids typically left behind as moisture exits the concrete. The end result is better curing and internal sealing of the concrete.

CPS as a densifier/sealer: CPS can be applied to already set concrete of any age. As CPS penetrates the concrete, a reactive process begins and the free alkali is converted to a calcium silicate hydrate gel. This process permanently seals and densifies the concrete. After the application of CPS, the concrete is waterproofed and more resistant to oils, acids, industrial chemicals and cleaners.

Application: In hot out door applications mist the concrete with out puddles, then apply CPS.

1. Use a medium to high-pressure airless sprayer with a .017 to .019 tip size.

NOTE: When an airless sprayer is not allowed for application, please contact the representative for alternative application methods.

2. All surface products other than concrete must be removed to allow the penetration of CPS.

3. Apply CPS to the point of saturation at the rate of 150 to 200

square feet per gallon. Use an overlapping pattern of 10% to 15%.

4. Some areas of the concrete may have a larger porosity rate and the CPS will absorb at a much faster rate. These areas should have a second application of the CPS.

5. When applying other coatings to the concrete, wait 24 hours. Rinsing may be needed if the CPS purged the concrete of impurities.

6. Do not apply CPS to frozen or near frozen concrete.

TECHNICAL DATA

Physical: Liquid

Color: Cloudy White (dries clear)

Odor: None

Specific Gravity: 1 - 10

pH: ±11.5

Clean-up Solvent: Water

R-Factor Increase: Up to 20%

Flammability: None

Toxicity: None

Surface Bond Quality: Excellent

Chloride Screenability: Excellent

Spill Clean-up: Dilute / Flush with water

Paintability: Excellent

VOC Compliant: Yes / None

Please see MSDS for additional information.