



PAVECURE CRYSTAL

*Non-Yellowing, Acrylic
Curing and Sealing Compound*

1. Product Description

a. **Basic Use:** Pavecure Crystal is a guaranteed non-yellowing, acrylic-based liquid designed to be applied as a thin membrane over new, green concrete to provide proper curing. Because it holds in the proper amount of moisture, concrete will achieve its utmost potential in terms of strength, wear resistance, durability, and water tightness. Pavecure Crystal forms a clear, glossy film that is totally resistant to ultraviolet discoloring.

b. Features/Benefits:

- Available in two formulations, 23 and 30 percent solids.
- Meets federal specification TTC-0800a.
- Cures, seals, hardens and dustproofs in one operation.
- Good for both inside and outside use.
- Can be applied on horizontal and vertical surfaces.
- Forms an acrylic clear continuous film which totally resists yellowing.
- Helps concrete to achieve increased resistance to freeze/thaw cycling and salt penetration.
- Able to be sprayed or rolled.
- Protects concrete during construction.
- Can be used as a sealer over old concrete for anti-spalling protection.

c. **Typical Applications:** Floors, pavements, walls, exposed aggregate, curbs, sidewalks, parking lots, warehouses, parking garages and colored concrete.

d. **Limitations:** Do not use Pavecure Crystal below 32°F (0°C). Applicators should wear protective masks designed for solvent fumes. Use in a well ventilated area. Keep away from open flames. Do not use over concrete to receive coatings or toppings later. For water-based, VOC compliant material, see Metcure 0800.

e. **Composition:** Pavecure Crystal is a clear acrylic resin formulated with hydrocarbon solvent and proprietary chemical additives.

f. **Color/Appearance:** Pavecure Crystal forms a clear, glossy film. For best clarity, avoid heavy build-ups.

2. Packaging

Pavecure Crystal is packaged in 1-gal. (3.8 liter) cans (4 cans per case), 5-gal. (18.9 liter) pails, and 55-gal. (208 liter) drums.

3. Estimating/Coverage

Coverage rates will depend on the surface texture of the concrete as well as concrete porosity. Approximate rates are:

<i>Use</i>	<i>Broom or Float Finish</i>	<i>Trowel /Smooth Finish</i>
<i>Curing/Sealing Green Concrete</i>	<i>250 sq. ft./gal. (6.1 sq. m/liter)</i>	<i>300 sq. ft./gal. (7.4 sq. m/liter)</i>
<i>Sealing/Dustproofing Old Concrete</i>	<i>275 sq. ft./gal. (6.7 sq. m/liter)</i>	<i>325 sq. ft./gal. (8.0 sq. m/liter)</i>
<i>Anti-Spall Treatment</i>	<i>200 sq. ft./gal. (4.9 sq. m/liter)</i>	<i>N/A</i>

Two coats may be applied where extra protection is desired. Avoid heavy build-ups and puddling.

4. Technical Data

a. Applicable Standards:

- ASTM C 309, Standard Specification for Liquid Membrane Forming Compounds for Curing Concrete, Type I, Class A & B.
- AASHTO M 148, Type I, Class A & B.
- Federal Specification TTC-0800a, Type I.

b. **Solids:** 23% and 30%.

c. **Drying Time:** 1 hour

d. **Re-Coat Time:** 2 to 3 hours

e. **Dry Film Thickness:** 1 mil (0.03 mm) at 275 sq. ft./gal. (6.7 sq. m/liter).

f. **Flash Point:** 108°F (42°C).

g. **Ultraviolet Resistance:** Excellent

h. **Adhesion to Concrete:** Excellent

i. **Alkali Resistance:** Excellent

j. **Blush Resistance:** Excellent

k. **Acid Resistance:** Excellent

l. **Solvent Resistance:** Poor

m. **Compatibility:** When applying under adhesives or glues, check for compatibility with a small test area or contact Metalcrete Industries for guidance.

5. Directions for Use

a. **Preparation:** Green concrete must be firm and free of any standing bleed water. Old concrete must be clean and free of oil, grease, and loose debris. Vacuum, sweep or power wash to produce a clean surface. Allow to dry. Remove any previously applied paint or coatings.

b. **Ambient Conditions:** Concrete and air temperatures must be 32°F (0°C) or higher.

c. **Material Application:** Pavecure Crystal may be applied by roller, sprayer (hand or power) or lambs wool applicator. Use directly out of container and apply uniformly and evenly. Avoid heavy build up. Lap material within 15 minutes for best results. Follow recommended coverage rates.

d. **Clean-Up:** Use DL Solvent to clean up tools and equipment.

e. **Storage/Shelf Life:** Pavecure Crystal is classified as combustible and should be stored accordingly. Shelf life is 18 months.

f. **Maintenance:** Pavecure Crystal will wear off over time under traffic. Periodic re-application is recommended.

6. Availability

Pavecure Crystal is normally available immediately from your local distributor or it will be shipped within 5 working days upon receipt of order. Please contact your local Metalcrete representative or call Metalcrete directly for more information.

7. Warranty

Pavecure Crystal is manufactured in strict accordance with the quality control standards of Metalcrete Industries. It is guaranteed to perform as indicated on this data sheet when applied by competent applicators.

8. Technical Service

Metalcrete technical service representatives are available to provide on-site assistance with a minimum three day notice.



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