



Chemprime CP

Polyurethane Concrete Primer

USGBC LEED, EQ Credit 4:

Low-emitting VOC Compliant Materials

Description

Chemprime CP a two component polyurethane primer for concrete that is to be top coated with Chemline's line of polyurethanes and polyureas. It is highlighted by:

- √ Superior wetting of substrate
- √ Very good chemical adhesion to the top coat
- √ Low viscosity, penetrating primer
- √ Designed for use in interior and exterior applications

Application Recommendations

Chemprime CP adheres strongly to concrete. It should be mixed 1 part A to 1 part B. Acetone can be used to reduce the viscosity as high as 50% (1A:1B:1Acetone). Mixing should be performed at low speed mechanically or by stir stick manually for at least 1 minute.

Chemprime CP may be applied by brush, roller, squeegee, or airless sprayer. Coverage rates will vary depending on porosity of concrete. Apply at 6-8 wet mills, which will cover approximately 200-260 square feet per gallon. Finished result of applied primer shall resemble a satin/sealed surface.

For further detail consult the **Chemprime CP** Material Standard and seek a Chemline Technical Representative for application training.

Packaging, Storage & Shelf Life

Chemprime CP is available in 2 and 10 gallon kits. It should be stored in sealed containers between 60°F and 90°F. Shelf life is 12 months under normal conditions.

Safety

Chemprime CP is for industrial use only. Avoid contact with eyes and skin. Do not inhale or ingest. When spraying, wear a respirator or fresh air hood. Spraying indoors requires forced ventilation. Be sure to read SDS in its entirety prior to use.

Application Properties

Property	Value
Mix Ratio, by volume A to B	1:1
Solids, by volume	100 %
Pot life	45 minutes
Gel time	45-120 minutes
Recoat Window	Up to 48 hours
Application Temp	30-100°F

Physical Properties

Property	Value
Adhesion to concrete	> 400 psi

*Values obtained in laboratory setting for comparison purposes only and should not be considered specifications.

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Surface Preparation

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion. Minimum recommended surface preparation:

Concrete & Masonry: SSPC-SP13/NACE 6 or ICRI No. 310.2R-2013, CSP 3-5. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with recommended repair material. Controlled high pressure water cleaning is suitable for CMU substrates.

Moisture content: use calcium chloride test: 3 lb./24 hr./1,000 ft². Concrete shall be 5% maximum as per ASTM F2170 & ASTM F2420. Substrate and air temperature must be 5°F above dew point and rising before material application.

Check for soluble salts on surfaces to be coated. If amount of soluble salts exceeds recommended limits, treat accordingly. Repeat process until acceptable limits are reached. Maximum amounts of soluble salts (micrograms per square centimeter): Chlorides - 3 immersion, 7 non-immersion. Nitrates - 5 immersion, 10 non-immersion. Sulfates - 10 immersion, 20 non-immersion.

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