

# CEILCOTE® 380C

*Conductive vinyl ester primer*

## DESCRIPTION:

CEILCOTE 380C (conductive) primer is a catalyzed vinyl ester resin containing conductive fillers for use on concrete surfaces. When used, it overcomes the variable electrical resistance of the concrete substrate and provides a conductive film under CEILCOTE linings and coatings so that the polyester and vinyl ester systems can be tested for holidays (pinholes) with a high voltage detector.

## TYPICAL USES:

- Concrete subjected to chemical immersion
- Secondary containment areas
- Electronics/semiconductor manufacturing
- Munitions facilities
- Clean rooms
- Solvent storage rooms

## ADVANTAGES:

- Spark testing on concrete surfaces insures holiday free applications
- Discharge of static electricity when used in conjunction with conductive topcoats

## COLORS:

Available in black only.

## PHYSICAL PROPERTIES:

<b>Generic Type:</b>	Vinyl ester	
<b>Volatile Organic Compounds:</b> (V.O.C.) Lab Test 23 of Reg. 8-5 California Code	0.2 lbs/gal	
<b>Viscosity @ 77°F (25°C):</b>	1,200 - 1,800 cps	
<b>Weight/Gallon:</b>	9.7 ± 0.2 lbs/gal	
<b>Flash Point:</b> (Pensky-Martens Closed Cup)	Liquid 83° F (28° C) Hardener 175 °F (89° C)	
<b>Adhesion:</b>	Stronger than concrete	
<b>Shelf Life:</b>		
6 months	40°F - 64°F	(4°C - 18°C)
3 months	65°F - 79°F	(18°C - 26°C)
1 month	80°F - 120°F	(27°C - 49°C)
<b>Mixing Ratio:</b>	1 gal CEILCOTE 380C primer liquid to 3 fl. oz. CEILCOTE #2C Hardener.	
<b>Coverage:</b>	120 - 160 ft <sup>2</sup> /gal @ 4-8 mils DFT	(2.9 - 3.9 m <sup>2</sup> /litre)

## Handling Properties:

(Approximate Time)

	50°F (10°C)	73°F (23°C)	90°F (32°C)
Working Time	75 min	55 min	25 min
Recoat Time	5 hrs.	2 hrs.	1 hr.
To Sustain Traffic	24 hrs.	12 hrs.	8 hrs.

## PACKAGING:

Available in 1 and 5 gal (U.S.) units

## LIMITATIONS:

Do not apply CEILCOTE 380C primer when the surface temperature is below 50°F (10°C).

Primer should be topcoated within 1 week when exposed to sunlight; otherwise must be topcoated within 4 weeks to assure proper adhesion of topcoat to primer. Confirm recoatability by wiping primer with styrene monomer. If surface becomes "tacky", adhesion is acceptable. If not softened by styrene, surface must be sandblasted or mechanically abraded to provide a non-glossy, rough textured surface.

## APPLICATION:

### Surface Preparation:

Abrasive blasting or scarification to remove laitance and surface contaminants is required. Concrete must be thoroughly cured, free of oils, curing solutions or mold release agents, dust, and must be dry at time of application. Refer to ASTM D-4263.

### Mixing and Application:

CEILCOTE 380C PRIMER has a tendency to settle during storage and must be thoroughly mixed prior to adding the CEILCOTE #2C Hardener. After mixing, add 3 fluid ounces of #2C Hardener per gallon of primer and mix for two more minutes to insure that the hardener is well dispersed.

It is recommended that CEILCOTE 380C primer be applied by roller using a short nap or mohair roller. A suitable brush may also be used, but not recommended.

### Number of Coats and Thickness:

Application of 6 - 12 mils wet film thickness to achieve 4 - 8 mils DFT.

**Thinning** DO NOT THIN

## CLEAN UP:

Use Ceilcote Solvent T-410, MEK or lacquer thinner. Observe fire and health precautions with solvents.  
**DO NOT USE ACETONE**

## TESTING:

Linings and coatings applied over CEILCOTE 380C primer can be tested for holidays. A specific method for high voltage holiday testing is addressed in ASTM D 4787 "Standard Practice for Continuity Verification of Liquid/Sheet Linings Applied to Concrete".

## SAFETY:

CEILCOTE 380C primer contains vinyl ester resins and styrene monomer. The hardener is an organic peroxide. The product's components have been formulated to optimize physical characteristics such as filling capacity, abrasion, moisture and chemical resistance while minimizing hazardous physical and health factors encountered during application. A concerted effort is made to be aware of the latest chemical toxicological information and to apply this knowledge in a responsible manner to insure product safety.

During application of CEILCOTE 380C primer materials, always wear gloves and appropriate work clothing to minimize contact. Ventilation is required with special consideration for enclosed or confined areas. Air movement must be designed to insure turnover at all locations in work area and adjacent areas to avoid buildup of heavy vapors. Use caution when handling flammable liquids, eliminate sources of ignition from work area, and containers with residues.

Observe safe storage practices by separating resins from hardeners, by keeping solvents in a cool area free of sources of ignition.

Product Material Safety Data Sheets (MSDS) are available and should be consulted when handling products. These products are for industrial and professional use only; application directions must be followed.

## MAINTENANCE:

Periodically inspect the applied material and repair localized areas needed. Consult your Master Builders representative for additional information.

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