

Description

CEILCOTE® 686C primer is a conductive epoxy primer for application on concrete surfaces. When used, it overcomes the variable resistance of the concrete substrate and provides a conductive film under CEILCOTE epoxy systems so that the system can be tested for holidays (pinholes) with a high voltage detector.

TYPICAL USES

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

Advantages

- Sparktesting on concrete surfaces ensures holiday free applications
- Discharge of static electricity when used in conjunction with conductive topcoats

Chemical Resistance

Resistant to synthetic and mineral lubricants, most acids, alkalis and solvents. Specific information on the chemical resistance properties will be furnished on request.

Substrate

Refer to Ceilcote concrete specification CPT-1.

Surface Preparation

Abrasive blasting or scarification to remove laitance and surface contaminants is recommended. Concrete must be thoroughly cured, free of oils, curing solutions and mold release agents, dust and must be dry at time of application. Use ASTM D 4263 (plastic sheet test method) to ensure concrete is moisture free. If moisture is detected, re-test until dry.

Application

CEILCOTE 686C Primer is a two-component compound consisting of resin and hardener.

Pour 686C Primer resin and hardener into a clean pail. Stir well for 2 minutes or longer and scrape the sides and bottom of pail to assure that a uniform blend is attained. A jiffy type mechanical mixer operated at low speed is recommended for best results. Apply the primer at 6 to 10 mils (150-250 microns) wet film thickness, to the prepared substrate using a roller.

Mixing Ratio

	By Weight	By Volume
CEILCOTE 686C Primer		
686C Primer Resin	100	3.8
686C Primer Hardener	22	1

Handling Properties

Working Time

Temperature	Time
50°F (10° C)	60 min
70°F (21° C)	45 min
90°F (32° C)	20 min

Time to Re-coat

Temperature	Time
50°F (10° C)	16 hrs
70°F (21° C)	6 hrs
90°F (32° C)	3 hrs

Coverage

Concrete 105 ft²/gallon (2.6 m²/liter)
Coverage may vary depending on density of concrete.

Packaging

The following standard packages are available
CEILCOTE 686C Primer 4.5 gal unit (17.1 liter unit)

Storage

Store in a cool, dry and covered location away from fire hazards and direct sunlight. Minimum shelf life at 70° F (21° C).

CEILCOTE 686C Primer 18 months

Higher temperature will shorten the shelf life of these products. The packing drums are to be kept tightly sealed and are to be resealed each time materials have been removed. All liquid products are to be stored in a frost-free place.

Safety

Store in cool, dry area [50°- 90° F (10° - 32° C)] away from direct sunlight, flame or other hazards.

CEILCOTE 686C Primer contains epoxy resins and polyamine catalyst. The product's components have been formulated to optimize physical characteristics such as strength 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 ensure product safety.



During application of CEILCOTE 686C 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 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 as needed. Consult your CEILCOTE representative for additional information.

Technical and Physical Data

	Test standard	Unit	Value
Generic Type			Epoxy
Density - mixed	ASTM D 1475	lbs/gal	10
Color			Black
Viscosity - mixed	ASTM D 2196	cps	2000
Adhesion to Concrete	ASTM D 4512	psi	>300
Hardness		Shore D	75-80
Volatile Organic Compounds	EPA Method 24	lb/gal (g/liter)	2.45 (293)
Shelf Life		months	18
Solids content		%	77
Flash Point		F° (C°)	58 (14)

Important Note

The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to law) any loss or damage arising out of the use of the product. WE HEREBY DISCLAIM ANY WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. All products supplied and technical advice given are subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local International Paint representative that this data sheet is current prior to using the product.

Issue date: 18/06/07

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