

# CEILCOTE® 810 COROCRETE

*Epoxy novolac broadcast flooring*

## DESCRIPTION:

The CEILCOTE® 810 COROCRETE® floor system is designed with heavy duty, epoxy novolac surface texture material. Abrasive grits are broadcast into the resin matrix to provide traction, textured finish, durability and wear. The flooring system is designed for resisting attack by aggressive chemicals such as concentrated sulfuric acid. Unique Novolac technology permits the extended working time of the CEILCOTE 810 COROCRETE floor, making it product user friendly, resulting in easier application and reduced waste.

## TYPICAL USES:

- Floors & ramps.
- Secondary containment.
- Drum storage.
- Industrial areas such as chemical plants, breweries, food processing plants & paper mills.

## ADVANTAGES:

- Excellent chemical resistance.
- Pre-blended grits provide skid-resistance.
- Moisture tolerant cure.
- Seamless surface.
- Simple to use.
- Low odor.
- 100% solids.

## COLORS:

Available in Gray and Tile Red

## PHYSICAL PROPERTIES:

<b>Generic Type</b>	Epoxy Novolac	
<b>Volatile Organic Compounds (VOC)</b>	Lab 23 Method of Reg. 8-4-11 of California Code	
	0 lbs/gallon (0 grams/litre)	
<b>Density</b>	Mixed	
	11.6 ± 0.2 lbs/gal	(@ 5.26 kg/3.79 litre OR 1.39 kg/litre)
<b>Flash Point</b>	Pensky Martin Closed Cup	
• Liquid	>200 °F	(>93 °C)
• Hardener	>208 °F	(>97 °C)
<b>Service Temperature Limits</b>		
• Splash/Spill/Rinse (frequent)	140 °F	(60 °C)
• Splash/Spill/Rinse (occasional)	180 °F	(82 °C)
<b>Tensile Strength</b>	3,000 psi	(20.7 MPa)
<b>Compressive Strength</b>	8,000 psi	(55 MPa)
<b>Tensile Elongation</b>	12.5%	
<b>Heat Distortion Temperature</b>	86.4 °F	(30.2 °C)

## Abrasion Resistance

### Tabor Coefficient

ASTM D 4060-84 55 mg

### Bond Strength To Concrete

ASTM D 4541,  
Failure in concrete 350 psi (2.4 MPa)

### Shelf Life

Shelf life for material is one year minimum, if kept tightly sealed.

## COVERAGE:

- 60 to 80 ft<sup>2</sup>/unit @ 1/8" (5.6 to 7.4 m<sup>2</sup>/unit)
- 120 to 140 ft<sup>2</sup>/unit @ 1/16" (11.2 to 13 m<sup>2</sup>/unit)

## MIXING RATIO:

1.6:1 by volume  
(Use CEILCOTE 810 COROCRETE Resin and CEILCOTE #12 Hardener)

**Thinning:** DO NOT THIN

## PACKAGING:

Available in US measured units.

CEILCOTE 810 COROCRETE 2.6 gal unit consists of:

- CEILCOTE 810 COROCRETE Resin  
16.2 lb in a 3.5 gallon pail
- CEILCOTE #12 Hardener  
8.7 lb in a 1 gallon pail
- Aggregate: Use 20 to 50 mesh rounded, clean and dry aggregate (purchased locally)

## HANDLING PROPERTIES:

(Approximate Time)	50°F (10°C)	73°F (23°C)	90°F (32°C)
Working Time	100 min	45 min	25 min
Recoat Time	24 hrs	12 hr	8 hrs
Time to Traffic*	48 hrs	24 hrs	16 hrs

\* For concentrated sulfuric acid exposure consult Master Builders.

## LIMITATIONS:

Do not apply CEILCOTE 810 COROCRETE material when the surface temperature is below 50°F (10°C) or above 110°F (43°C).

## APPLICATION:

The following information is abbreviated application information. Install only in accordance with complete instructions found in the current, published Master Builders Installation Procedure #3.141I

### Surface Preparation:

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

### Primers (not normally required):

Consult Master Builders, Inc. if necessary.

### For Concrete (when needed):

- CEILCOTE 680 PRIMER
  - CEILCOTE 680C (Conductive) PRIMER
- Mix and apply primer per instructions.

### Placement:

1. Stir two components together well for at least two minutes to insure proper blend. For best results, use a mechanical Jiffy type mixer at low speed.
2. Apply coating at approximately 15 to 20 mils by short nap roller or notched squeegee.
3. Broadcast sand or grit in excess into resin while it is still uncured, covering the entire resin surface.
4. Let cure and then vacuum or sweep excess grit from surface.
5. Apply coating at approximately 15 to 20 mils (.38 to .51 mm) onto the grit covered surface and then allow to cure. The amount of resin on surface will determine how aggressive the skid resistance will be.

### SAFETY:

- FOR INDUSTRIAL USE ONLY!  
CEILCOTE 810 COROCRETE components contain epoxy resins and polyamine catalyst.
- Store in cool, dry area 50°F to 90°F (10°C to 32°C) away from direct sunlight, flame or other hazards.
- During application of CEILCOTE 810 COROCRETE 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 ignitions.
- 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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