

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 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
- Seamless surface
- Ease of application
- Low odor
- 100% solids
- Impact and abrasion resistant
- Moisture tolerant cure

Color

Gray or Tile Red. Coating will amber with time.

Chemical Resistance

Information on the chemical resistance properties will be furnished on request.

Substrate

Refer to Ceilcote concrete specification CPT-1.

Surface Preparation

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

Application

The flooring system consists of a primer, broadcast base coat and a topcoat.

Mixing Ratio	By Volume
<u>CEILCOTE 680 Primer*</u>	
680 Primer Resin	3
#9 Hardener	1
<u>CEILCOTE 810 Corocrete</u>	
810 Corocrete Resin	1.6
#15 Hardener	1

**When dry priming is required use CEILCOTE 680 Primer or CEILCOTE 810 Corocrete. Dry priming is required for extremely porous concrete, where potential contamination of prepared concrete by process liquids is possible or when applied in direct sunlight. Other Ceilcote epoxy primers may be used depending on surface or environmental conditions. Consult Ceilcote. To wet prime, use CEILCOTE 810 Corocrete resin and hardener.*

Placement

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.

Apply coating at approximately 15 to 20 mils (375-500 microns) by short nap roller or notched squeegee.

Broadcast sand or grit in excess into resin while it is still uncured, covering the entire resin surface.

Let cure and then vacuum or sweep excess grit from surface.

Apply coating at approximately 15 to 20 mils (375-200microns) (.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.

Thinning

None required. Do not thin

Handling Properties

All times are approximate

Working Time

	680 Primer	810 Corocrete
50°F (10°C)	60 min	100 min
70°F (21°C)	45 min	45 min
90°F (32°C)	20 min	25 min

Recoat

	680 Primer	810 Corocrete
50°F (10°C)	5 hrs	24 hrs
70°F (21°C)	2 hrs	12 hrs
90°F (32°C)	1 hrs	8 hrs

Time to Place in Service

	Traffic	Cure Time
50°F (10°C)	2 days	10 days
70°F (21°C)	24 hrs	5 days
90°F (32°C)	16 hrs	72 hrs

Coverage

680 Primer 150-200 ft²/gal (3.7-4.9 m²/liter)
 810 Corocrete

As Primer 150-200 ft²/gal (3.7-4.9 m²/liter)
 As Broadcast @ 1/16" 48-56 ft²/gal (1.2 - 1.4 m²/liter)*
 Coating @ 8-10 mils (200-250 microns) 160-200 ft²/gal
 (3.9-4.9 m²/liter)

* Coverage includes 1 topcoat

Packaging

The following standard packages are available:
 CEILCOTE 680 Primer 1, 4, 40 gal units (3.79, 15.14, 151.4 liter units)
 CEILCOTE 810 Corocrete 2.6 gal units (9.84 liter units)

Storage

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

CEILCOTE 680 Primer 18 months
 CEILCOTE 810 Corocrete 18 months

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. Low temperatures may effect ease of application.

Safety

Store in cool, dry area [50° - 90° F (10° - 32° C)] away from direct sunlight, flame or other hazards. CEILCOTE 810 Corocrete contains epoxy resins and a polyamine catalyst. 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 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 and by keeping solvents in a cool area, free of sources of ignitions.

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 Novolac	
Viscosity - mixed	ASTM D 2393	cps	1,000@ 73 °F	
Compressive Strength	ASTM C 579-75	Psi (MPa)	8,000 (55)	
Tensile Strength	ASTM C 307-77	psi (MPa)	3,000 (20.7)	
Tensile Elongation (binder only)	ASTM D 638	%	12.5	
Density	ASTM D 792-66	lbs/gal (kg/liter)	9.5 + 0.2(1.14)	
Coefficient of Expansion	ASTM C 531	in/in/F	1.88 x 10 ⁻⁵	
Service Temperature Limits	Occasional Splash/Spill/Rinse Frequent Splash/Spill/Rinse	°F (°C)	250 (121)	
			140 (77)	
Tabor Abrasion	ASTM D-4060, CS 17 wheels, 1000 gm, 1000 cycles	mg	55	
Heat Distortion Temperature		°F (°C)	86.4 (30.2)	
Bond Strength to Concrete <i>Failure in concrete</i>	ASTM D 4541	psi (Mpa)	350 (2.4)	
Volatile Organic Compounds	EPA Method 24	lbs/gal (g/l)	1.279 (153.48)	
Flash Point	Pensky-Martens Closed Cup	°F (°C)	810 Resin	200 (93)
			#15 Hardener	208 (97)
			680 Primer Resin	212 (100)
			#9 Hardener	228 (109)

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.

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