

CEILCOTE® 800 COROLINE®

Cloth reinforced novolac epoxy lining

DESCRIPTION:

CEILCOTE® 800 COROLINE® lining is a heavy duty, monolithic flooring/lining system that is designed to protect concrete and metal against attack by corrosive chemicals and mechanical abuse. Based on novolac epoxy technology, CEILCOTE 800 COROLINE lining provides exceptional resistance to 98% Sulfuric Acid, Sodium Hydroxide and other aggressive chemicals.

Unique to novolac technology, the extended working time of CEILCOTE 800 COROLINE lining makes the product user friendly, resulting in easier application and less waste.

Primer:

Moisture tolerant, flexible primer penetrates, strengthens and seals the concrete.

Base coat:

Trowel applied base coat smoothes surface irregularities and lowers the coefficient of expansion.

Fiberglass Reinforcement:

Fiberglass reinforcement in combination with the resin system dissipates localized stress while enhancing composite strength.

Topcoat:

Trowel applied topcoat provides corrosion resistance, permeation resistance and durability.

TYPICAL USES:

- Tank linings.
- Heavy traffic areas requiring chemical protection.
- Floors and chemical trenches.
- Truck loading/unloading areas.
- Secondary containment areas.
- Sumps.

ADVANTAGES:

- Superior resistance to 98% Sulfuric Acid.
- Superior resistance to Oleum.
- Extended working time.
- Tough, durable system.
- Moisture tolerant cure.
- Seamless surface.
- Low odor.
- 100% Solids.

COLOR:

Available in Gray.

PHYSICAL PROPERTIES:

Generic Type	Epoxy Novolac
Volatile Organic Compounds (VOC)	0 lbs/gal
Compressive Strength <i>ASTM C 579-82</i>	12,000 psi
Tensile Strength <i>ASTM C 307-83</i>	3,000 psi

Service Temperature Limits:

Frequent or Severe Spills	150°F	(66°C)
Occasional Splash/Spills	200°F	(93°C)

Shelf Life:

One year minimum, if kept tightly sealed.

COVERAGE:

CEILCOTE 680 PRIMER (for steel):

275 to 325 ft²/gal (6.7 to 7.9 m²/litre)

CEILCOTE 680 PRIMER (for concrete):

150 to 200 ft²/gal (3.7 to 4.9 m²/litre)

CEILCOTE 800 COROLINE (Base coat/Saturant):

28 to 30 ft²/gal (.68 to .7 m²/litre)

CEILCOTE 800 COROLINE (Topcoat):

43 to 45 ft²/gal (1.05 to 1.1 m²/litre)

S-1 Powder: 50 ft²/50 lb bag (4.7 m²/bag)

Type "H" Cloth: 1.1 x total ft² (1.1 x m²)

T-420 Smoothing Liquid: 150 ft²/gal (3.7 m²/litre)

PACKAGING:

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

MIXING RATIO:

- CEILCOTE 800 COROLINE (for Base coat/Saturant) to #12 Hardener
By Weight - 1.73:1; By Volume - 1.49:1
- CEILCOTE 800 COROLINE (Topcoat) to #13 Hardener
By Weight - 1.82:1; By Volume - 1.55:1

HANDLING PROPERTIES:

(Approximate Time)

Temperatue	Working Time	Recoat Time	Cure Time
@ 50°F(10°C)	90 min	24 hrs	3-4 days
@ 75°F(24°C)	40 min	10 hrs	1 day
@ 90°F(32°C)	15 min	6 hrs	12-16 hrs

* For concentrated sulfuric acid exposure information, consult Master Builders.

LIMITATIONS:

Do not apply CEILCOTE 800 COROLINE material when the surface temperature is below 50°F (10°C).

APPLICATION: (Abbreviated)

Surface Preparation:

Steel:

For immersion or high temperature service a "White Metal" abrasive blast (SSPC #5-89 or NACE #1) is required with a minimum anchor pattern profile of 3 mils. For atmospheric service use a "Near White" sandblast (SSPC #10-89 or NACE #2).

Concrete:

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 ASTM D-4263 to ensure concrete is moisture free. If moisture is detected, re-test until dry.

Primers:

For Steel Surfaces:

CEILCOTE 680 primer

For Concrete:

CEILCOTE 680 primer

CEILCOTE 680C (Conductive) primer

Mix and apply primer per instructions.

Placement:

1. Be certain the cured primer is clean and dust free.
2. For base coat/saturant mechanically premix CEILCOTE 800 COROLINE components individually (i.e. Part A, Part B) prior to blending together. After initial mixing, add Hardener #12 to CEILCOTE 800 COROLINE Resin and mix for three to five additional minutes.
3. In small amounts, add and mix a total of 20 to 24 pounds Type S-1 Powder per gallon of CEILCOTE 800 COROLINE lining. More or less powder may be added as required. Use within 15 minutes after adding hardener.
4. Using a trowel, apply 60 to 80 mils of base coat.
5. Press the reinforcing cloth into the base coat, leaving no wrinkles or hollows. Lap each strip about 1" over preceding strips. Press the cloth carefully into all corners. When the cloth is being placed overhead, allow the base coat to get a little firm, not hard, before saturating cloth.
6. Saturating should be done before the base coat has hardened. Mix the CEILCOTE 800 COROLINE Resin and Hardener #12 as instructed above.
7. Apply the saturant with a brush or roller until all cloth is translucent. Let cure approximately 16 hrs.
8. Examine the cured saturating coat before recoating. If it appears damp or has a film on it, wash it with water and allow to dry.
9. For topcoat mechanically premix CEILCOTE 800 COROLINE components individually (i.e. Part A, Part B) prior to blending together. After initial mixing, add Hardener #13 to CEILCOTE 800 COROLINE Resin and mix for three to five additional minutes.
10. In small amounts, add and mix a total of 20 to 24 pounds Type S-1 Powder per gallon of CEILCOTE 800 COROLINE material. More or less powder may be added as required. Use within 15 minutes after adding hardener.
11. Trowel on 60 mils of topcoat. Smooth it by dampening a clean, soft brush with T-420 and brushing lightly to remove trowel marks. If an extra smooth surface is desired, allow topcoat to become a little firm before brushing.

CLEAN UP:

Use toluene, xylene or T-410.

SAFETY:

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

CEILCOTE 800 COROLINE material 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 800 COROLINE 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.

Standards concerning the use of products are not to be construed as recommending the infringement of any patent, and no liability for infringement arising out of such use is assumed by Master Builders, Inc.

For additional information, contact your local Master Builders Representative.

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