

CEILCOTE® CeilLine® Series

Crack-bridging high performance linings

DESCRIPTION:

The CEILCOTE® CeilLine Series of crack-bridging, high-performance linings are capable of bridging cracks in concrete structures. These unique lining systems utilize the synergistic relationships between an elastomeric base coat, glass reinforcement and a tough chemical resistant topcoat to provide a durable lining over moving or cracked concrete.

The success of these products for meeting a multitude of demanding and diverse chemical environments is based on the utilization of various topcoats as dictated by the specific operational requirements of each application. Performance proven topcoat technologies include epoxy, novolac epoxy, polyester, vinyl ester and novolac vinyl ester systems.

Primer:

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

Base coat:

Elastomeric base coat relieves stress on the lining caused by moving/cracked concrete.

Fiberglass Reinforcement:

Fiberglass mat in combination with a flexible resin saturant dissipates localized stress while enhancing composite strength.

Topcoat:

Provides corrosion resistant barrier to acids, solvents and caustics. Topcoat selection is based upon requirements for each specific application.

TYPICAL USES:

- Secondary containment areas.
- Floors and chemical trenches.
- Truck loading and unloading areas.
- Tank farms.

ADVANTAGES:

- Corrosion barrier over moving/cracked concrete.
- Seamless surface.
- Corrosion resistant topcoats.

COLORS:

Available in Gray.

PHYSICAL PROPERTIES:

Thickness	3/32" nominal (2.38 mm)
Tensile Strength, Reinforcement Layer <i>ASTM D 638-89</i>	9,500 psi (65 MPa)
Bond to Concrete	Exceeds the strength of Concrete
Flash Point <i>(Pensky-Martens Closed Cup)</i>	
• CEILCOTE 680 PRIMER (Resin Part A)	204°F (95°C)
• CEILCOTE Hardener #9	228°F (108°C)

- **CEILCOTE CeilLine BASE COAT**
(Resin Part A) 140°F (60°C)
- **CEILCOTE CeilLine BASE COAT**
(Hardener Part B) 208°F (97°C)
- **CEILCOTE CeilLine SATURANT**
(Resin Part A) 82°F (27°C)

Service Temperature Limits

- Splash/Spill/Rinse (Occasional) 200°F (93°C)
- Splash/Spill/Rinse (Frequent) 130°F (54°C)

Shelf Life

- **CEILCOTE 680 PRIMER** One year minimum
 - **CEILCOTE CeilLine BASE COAT**
6 months @ 70°F to 80°F (21°C to 27°C)
 - **CEILCOTE CeilLine SATURANT**
3 months @ 70°F to 80°F (21°C to 27°C)
- Keep unopened containers away from direct sunlight.*

COVERAGE: (Actual)

- **CEILCOTE 680 PRIMER**
150 to 200 ft²/gal (3.7 to 4.9 m³/litre) @ 2 to 5 mils DFT
- **CEILCOTE CeilLine BASE COAT**
33 to 37 ft²/gal 30 to 50 mils
(.81 m²/litre to .91 m²/3.79 litre)
1-1/2 oz. Mat Reinforcement
1.1 x total area (10% extra)
- **CEILCOTE CeilLine SATURANT or**
CEILCOTE 680 primer 35 ft²/gal (.86 m²/litre)

The saturant for the fiberglass reinforcement is dependent on the topcoat used. For polyester/vinyl ester topcoats use CeilLine Saturant. For epoxy topcoats use CEILCRETE 680 Primer.

MIXING RATIO:

- **CEILCOTE 680 PRIMER** By Volume: 3:1
- **CEILCOTE CeilLine BASE COAT** By Volume: 5:1
- **CEILCOTE CeilLine SATURANT**
By Volume: 3 oz of CEILCOTE #2C Hardener per gal of resin
- **CEILCOTE CeilLine TOPCOAT**
See individual topcoat technical data sheet

THINNING: DO NOT THIN

PACKAGING:

Available in US measured units.

- **CEILCOTE 680 PRIMER** 1 & 4 gal units
- **CEILCOTE CeilLine BASE COAT**
0.75 & 4 gal units
- 1-1/2 oz. (1.1 x ft²) Reinforcing, order by the square foot
- **CEILCOTE CeilLine SATURANT** 0.75 & 3.5 gal. units

LIMITATIONS:

- Do not apply CEILCOTE CeilLine when the surface temperature is below 50°F (10°C).
- Surfaces should be recoated within one (1) week when exposed to sunlight; otherwise, within two (2) weeks to assure proper adhesion between coats. Confirm recoatability by wiping the coating with toluene. If surface becomes “tacky”, adhesion is acceptable. If surface is not softened by toluene, surface must be grit blasted or mechanically abraded to provide a non-glossy, rough surface.

APPLICATION: (ABBREVIATED)

Please refer to Installation Procedures for further details.

SURFACE PREPARATION:

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 to ensure concrete is moisture free (ASTM D4263). If moisture is detected, re-test until dry.

Primers (For Concrete):

- CEILCOTE 680 PRIMER
- CEILCOTE 680 C (Conductive) PRIMER

PLACEMENT:

- **NOTE:** For each application step, mechanically premix each component (i.e. Resin Part A and Hardener Part B) individually prior to blending together. After initial mixing, add hardener to resin (at appropriate volumes) and mix for two or more minutes to ensure proper dispersion.
- Mix and apply primer per instructions.
- Mix and trowel apply CEILCOTE CeilLine BASE COAT at 30 to 50 mils or a target at 40 mils. If entrapped air is evident, a spiked roller can be used to remove air from the CEILCOTE CeilLine. Allow the base coat to fully harden before proceeding to next step.
- Mix and apply CEILCOTE CeilLine SATURANT at 3 to 5 mils wet film thickness with a brush or roller to the hardened base coat.
- Set the 1-1/2 ounce glass mat into wet saturant, overlapping 1 to 2 inches. Mix and apply saturant until glass mat is fully saturated (i.e. translucent). Force out entrapped air with a ribbed or spring roller. Allow to hard cure before proceeding to the next step.
- **Topcoat will vary upon chemical operating conditions.** Contact Master Builders Inc. for recommendations and application instructions.

CLEAN UP:

Use Toluene, Xylene, T-410 or MEK.

SAFETY:

- Store in cool, dry area [50° to 90°F (10° to 32°C)] away from direct sunlight, flame or other hazards.
- CEILCOTE 680 PRIMER contains epoxy resins and polyamine hardener. CEILCOTE CeilLine BASE COAT contains a proprietary two component resin and hardener. CEILCOTE CeilLine SATURANT contains polyester resins, styrene monomer and the catalyst 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 the application of CEILCOTE CeilLine 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. Observe a special warning on **RED** and **YELLOW** labeled products. The **RED** label represents amine type chemicals and the **YELLOW** label represents organic peroxide type chemicals which should not be stored adjacent or mixed together because of possible violent reaction between them.
- 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, Inc. representative for additional information.

For additional information, contact your local Master Builders Representative.

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