

CEILCOTE® 40 CeilLine

Crack-bridging high performance lining

DESCRIPTION:

CEILCOTE® 40 CeilLine Lining is a stand-alone chemical resistant lining system capable of bridging cracks in concrete structures. The elastomeric topcoat provides a durable monolithic lining over moving or cracked concrete.

This proprietary "liquid-applied" system provides excellent crack bridging capabilities along with good general corrosion resistance for most conditions in secondary applications, including containment of chemicals, oils and waste effluents.

Primer

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

CEILCOTE CeilLine

Squeegee and roller applied elastomeric topcoat bridges cracks caused by moving/cracked concrete while providing chemical containment.

TYPICAL USES:

- Secondary containment areas.
- Floors exposed to limited traffic.
- Mechanical room floors.
- Areas subjected to thermal shock.
- Tank farms.

ADVANTAGES:

- Corrosion barrier over moving/cracked concrete.
- Seamless surface.
- System can be spark tested with use of CEILCOTE 680C (Conductive) primer.
- 100% solids.

COLORS:

Available in gray.

PHYSICAL PROPERTIES:

Thickness 40 mils @ 2 coats 20 mils (.51 mm) each

Tensile strength
ASTM D 412-89 1000 psi (6.9 MPa)

Tear strength
ASTM D 624-73 110 psi (.76 MPa)

Elongation
ASTM D 412-89 80 to 100%

Adhesion to concrete
ASTM C 836 sec 4.10 490 psi (3.4 MPa)

Chloride Ion Permeability
AASHTO-277-831 0.01 coulombs

UV Resistance

ASTM D 832

Discoloration after 12 hrs. no appreciable change in properties

Chemical Resistance

Dilute concentrations of acids, caustic and some limited solvents. Under higher concentrations system may become sacrificial.

Flash Point

(Pensky-Martens Closed Cup)

- **CEILCOTE 680 primer (Resin Part A)** 204°F (95°C)
- **#9 Hardener** 228°F (108°C)
- **CEILCOTE 40 CeilLine topcoat (Resin Part A)** 480°F (249°C)
- **CEILCOTE 40 CeilLine (Hardener Part B)** 285°F (140°C) (Seta)

Shelf Life

Shelf life for material is 1 year minimum if kept tightly sealed and stored at 70°F (21°C)

SERVICE TEMPERATURE LIMITS:

Occasional Splash/Spill/Rinse
120°F to 160°F (104°C to 71°C)

COVERAGE:

- **CEILCOTE 680 primer**
150 to 200 ft²/gal (3.7 to 4.9 m²/litre)
- **CEILCOTE 40 CeilLine Theoretical:**
30 to 40 ft²/gal (0.7 to 1.0 m²/litre) @ 40 mils

PACKAGING:

Available in US measured units.

- **CEILCOTE 680 primer**
1 & 4 gal units
- **CEILCOTE 40 CeilLine**
4.8 gal unit

MIXING RATIO:

CEILCOTE 40 CeilLine topcoat

- By Weight 1:1.2
- By Volume 1:1.25

HANDLING PROPERTIES:

(Approximate Time)	50°F (10°C)	73°F (23°C)	90°F (32°C)
Working Time	280 min	100 min	40 min
Recoat Time	16 to 24 hrs	6 to 8 hrs	2 to 4 hrs
Cure Time	1 week	2 to 3 days	1 day

LIMITATIONS:

- Do not apply CEILCOTE 40 CeilLine material 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 is not softened by toluene, surface must be grit blasted or mechanically abraded to provide a non-glossy, rough surface.

INSTALLATION PROCEDURES: (abbreviated)

Please refer to Installation Procedures (1.51I) 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, mold release agents and dust. Concrete 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 (For concrete)

- CEILCOTE 680 primer
- CEILCOTE 680C (Conductive) primer

APPLICATION:

NOTE:

- For each application step, mechanically mix 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 squeegee apply CEILCOTE CeilLine material at 40 mils on horizontal surfaces. Use a spiked roller to remove any entrapped air. For vertical surfaces roller apply 2 coats to achieve a 30 to 40 mil (.77 to 1.02 mm) thickness. Allow the CEILCOTE 40 CeilLine Lining to fully cure before second topcoat or putting into service.

CLEAN UP:

Use Toluene, Xylene, T-410 or lacquer thinner

SAFETY:

- Store in cool, dry area [50° to 75°F (10° to 24°C)] away from direct sunlight, flame or other hazards.
- CEILCOTE 680 primer contains epoxy resins and polyamine hardener. CEILCOTE CeilLine material contains a proprietary resin and hardener. The product 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 material, 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 ensure 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 safety 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 representative for additional information.

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