

Master Builders Technologies **Corrosion Control** INSTALLATION PROCEDURE

CEILCOTE® 40 CEILLINE®

Crack-bridging lining

The following procedures are to be used when applying CEILCOTE CeilLine Series to concrete surfaces. This information is as specific as possible, but cannot cover all variations in field conditions. Therefore, supervisors experienced in installing CEILCOTE materials may sometimes deviate slightly from the published procedures. This is done to give a better installation by using the most up-to-date methods to fit specific field and service conditions.

EQUIPMENT:

- Plaster or cement finishing trowel
- Pointing or marginal trowel
- Paint rollers-short 3/8" fiber mohair
- Paint brushes-pure bristle
- Pails (3 or 5 gal.) for mixing & cleaning
- Small graduate for measuring hardener
- Large graduate for measuring liquid
- Abrasive blast equipment or blastrac unit
- 1/2" drill motor for mixing
- Plaster whip for mixing
- Cleaning solvent
- Squeegee
- Spiked roller

MATERIALS REQUIRED:

- CEILCOTE 680 Primer for concrete
- CEILCOTE CeilLine Resin
- Solvent for cleaning T-410, MEK or lacquer thinner

SURFACE PREPARATION:

Concrete Walls:

The surface of most formed concrete contains holes from air entrapment. The best preparation is to lightly abrasive blast to open holes covered with cement and to roughen the surface. The holes should be filled using CEILCOTE 680 Primer and CEILCOTE S-11 Powder. The trowel should be used as a squeegee, stroking in several directions to completely fill the holes and scraping the surface. For complete surface preparation for old and new concrete refer to CEILCOTE Construction Practice CP-11.

The major problem with curing concrete is the water content, therefore a thorough moisture test must be done on the substrate. This can be checked by ASTM D-4263, which calls for taping an 18" x 18" square of polyethylene or other clear film to the floor. If condensation appears on the underside of the film or if the concrete becomes visibly damp within 8 hours, the concrete is not dry enough to place the CEILCOTE CeilLine materials.

Concrete Floor

New concrete floors should be cured and then Blastrac, abrasive blast or Scarify. For complete surface preparation for old or new concrete refer to CEILCOTE Construction Practice CP-11.

APPLICATION:

For all application steps, the surface temperature, air temperature and material temperature should be between 50 and 110 degrees F (10 and 43 degrees C).

Do not apply if the relative humidity is more than 90% or the surface temperature is less than 5% above the dew point of the air in the working area.

Priming:

Remove dirt, dust and abrasives by vacuuming, air blowing or careful brushing. Surfaces must be primed with CEILCOTE 680 PRIMER. Primer may be sprayed or roller applied. CEILCOTE 680 PRIMER on concrete covers 150 to 200 ft²/gal (3.7 to 4.9 m²/litre). To assure proper adhesion primer should be coated within 1 week when exposed to sunlight; otherwise, within 2 weeks before coating with CEILCOTE 40 CeilLine. Confirm recoatability by wiping the primer 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.

Topcoat:

Mix CEILCOTE 40 CeilLine resin and hardener thoroughly, using either a paddle or a mixing whip attached to a 1/2" electric drill. Squeegee apply the CEILCOTE 40 CeilLine resin at 30 - 50 mils on to horizontal surfaces. Please note, for vertical applications material must be rolled applied @ 2 coats 15 - 25 mils per coat. Immediately roll all material with spiked roller to allow any trapped air to be released.

Cure Time:

Final cure times before putting area into service generally ranges between 24 - 72 hours.

CLEAN UP:

Equipment and tools may be cleaned up with T-410, MEK or lacquer thinner.

SAFETY:

Store in cool, dry area [50 to 90 degrees F (10 to 33 degrees C)] away from direct sunlight, flame or other hazards.

CEILCOTE 680 Primer contains epoxy resins and polyamine hardener. CEILCOTE 40 CeilLine contains a proprietary two component resin and hardener. 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 40 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.

STORAGE SAFETY:

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.

FOR INDUSTRIAL AND PROFESSIONAL USE ONLY

MAINTENANCE:

Periodically inspect the applied material and repair localized areas needed. Consult your Master Builders representative for additional information.

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