

# CEILCOTE® CEILLINE Lining Series®

## *Crack-bridging high performance linings*

### **IMPORTANT: READ THIS FIRST:**

Master Builders warrants the performance of this product if and only if the instructions of this document and other related Master Builders are adhered to in all respects.

The following procedures are to be used when applying the CEILCOTE® CeilLine® Lining Series to concrete surfaces. These procedures are 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 roller covers-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.
- Scissors or shears-to cut glass mat.
- Abrasive blast equipment.
- 1/2" Drill motor-for mixing.
- Plaster whip-for mixing.
- Cleaning solvent.
- Spray equipment for applying sprayed applied.
- Topcoats.
- Spiked roller.
- Ribbed roller.

### **MATERIALS REQUIRED:**

- CEILCOTE 680 Primer for concrete
- CEILCOTE CeilLine Base coat - Horizontal & Vertical versions available
- 1-1/2 oz. Mat Reinforcement
- CEILCOTE CeilLine Saturant - saturant for Polyester and Vinyl Ester systems
- CEILCOTE 680 Primer/Saturant for epoxy systems
- CeilLine Topcoat-Dependent on System used  
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 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.

#### **Concrete Floors:**

New concrete floors should be thoroughly cured, then Blast Tracked, abrasive blasted or Scarified. For complete surface preparation for old or new concrete refer to CEILCOTE Construction Practice CP-11. Use plastic sheet test method to ensure concrete is moisture free. If moisture is detected, re-test until dry.

### **APPLICATION:**

#### **Environmental Conditions**

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 (thinned) on concrete covers 160 to 200 ft<sup>2</sup>/gal (3.7 to 4.9 m<sup>2</sup>/litre). Primer should not cure longer than 1 week when exposed to sunlight; otherwise, within 2 weeks before covering with base coat to assure proper adhesion. 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 and then reprimed.

#### **Base coat:**

Mix CEILCOTE CeilLine Base Coat Resin and hardener thoroughly, using either a paddle or a mixing whip attached to a 1/2" electric drill. Trowel apply the CEILCOTE CeilLine Base Coat at 30 to 50 mils (target to 40 mils). While fresh or in softened state, use spiked roller to release any entrapped air. Please note, we have a vertical and horizontal base coat. The Horizontal can only be used for that type of surface. Due to the viscosity of the vertical version, it can be used for both vertical and horizontal surfaces if necessary. Allow the base coat to fully harden before proceeding to the next step. At 70°F (21°C) allow to cure for a minimum of 12 hours or tack-free before applying 1-1/2 oz. mat. Base coat should not cure longer than 1 week before applying the mat reinforcement. If cure time has exceeded 1 week, consult Master Builders, Inc.

#### Saturant and Mat:

Mix and apply CEILCOTE CeilLine SATURANT (for polyester or vinyl ester topcoats) or CEILCOTE 680 PRIMER (for epoxy topcoats) at 10 to 15 mils wet film thickness with a brush or 3/8" roller to the hardened base coat. Press the 1-1/2 oz. mat into the wet saturant, overlapping 1 to 2 inches. Roll the surface with a short nap roller. Apply additional saturant as required, and continue rolling until mat is fully saturated. Saturation is complete when all areas of the mat have lost their whiteness and have become slightly translucent. Force out entrapped air with a spring or ribbed roller. When material is tack-free to the touch (usually 16 to 24 hours), proceed to the next step. Do not terminate glass in corners when you have this option.

#### Topcoat:

Grind seams and any high point before topcoating. Wipe off or vacuum dust. Topcoat will vary depending on chemical operating conditions. Please refer to the specific topcoat's Installation Procedure for application of the Topcoat.

#### Cure Time:

Final cure times before putting area into service generally ranges between 24 to 72 hours. Consult the Technical Data Sheet for the specific topcoat.

#### 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 32 degrees 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.

#### 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 as needed. Consult your Master Builders, Inc. representative for additional information.

#### FOR MORE INFORMATION:

For additional information, contact your local Master Builders Representative.

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