

# CEILCOTE® FT COROCRETE®

Epoxy fill/topping

## DESCRIPTION:

The CEILCOTE F/T COROCRETE system is a specialized polymer formulation, designed for use as a fast curing concrete fill material and as an industrial flooring. This long-lasting system is significantly easier to install than conventional epoxy floor systems and can be installed from 3/16 to 6" in thickness, depending upon its application.

As a fill material for spilled/deteriorated concrete, CEILCOTE F/T COROCRETE system can be used as a stand alone, one-step repair product, as a fast curing underlayment for polymer toppings and to re-slope floors.

Installed as a floor topping, CEILCOTE F/T COROCRETE system protects industrial floors from the abuses of traffic, spillage from a wide range of chemicals and harsh cleaning operations. It has been designed for hand and power trowel applications. As a result of its highly engineered filler system, the CEILCOTE F/T COROCRETE matrix is tightly packed and non-porous, thereby, eliminating the need for a sealer.

## TYPICAL USES:

- Repair spalled/deteriorated concrete.
- Rebuild/re-slope damaged floors.
- Underlayment for polymer toppings.
- Industrial flooring.

## ADVANTAGES:

- Easy to use.
- Fast production rates.
- Hand and power trowellable.
- Pre-packaged units.
- No sealer coat required.
- Moisture tolerant cure.
- Good chemical resistance.
- Seamless system.
- Low odor.

## PHYSICAL PROPERTIES:

**Volatile Organic Compounds (VOC)**  
0 lbs/gal.

### Service Temperature Limits

Splash/Spill/Rinse (occasional) 250°F (121°C)  
Splash/Spill/Rinse (frequent) 170°F (77°C)

### Compressive Strength

ASTM C 579-75 10,000 to 14,000 psi (69 to 104 MPa)

### Tensile Strength

ASTM C 307-77 2,000 to 2,600 psi (14 to 18 MPa)

### Flexural Strength

ASTM C 580-74 3,500 to 5,500 psi (20 to 34 MPa)

### Flexural Modulus

ASTM C 580-74 2.0 to 2.5 x 10<sup>6</sup> psi (27 to 33 GPa)

### Shrinkage

ASTM D 2566-79 .0007 in/in

## Absorption

ASTM C 413-80 .056%

## Density

ASTM D 792-66 131 lbs/ft<sup>3</sup> (2,100 kg/m<sup>3</sup>)

## Coefficient of Expansion

ASTM C 531-81 1.88 x 10<sup>-5</sup> in/in/°F

## Flash Point

(Pensky-Martens Closed Cup)

	°F	°C
• CEILCOTE F/T COROCRETE Primer Liquid	200	93
• CEILCOTE F/T COROCRETE Resin Liquid	200	93
• CEILCOTE F/T COROCRETE Hardener	191	88
• CEILCOTE 680 PRIMER Liquid	205	95
• CEILCOTE #9 Hardener	228	109

## Shelf Life

CEILCOTE COROCRETE liquids are stable for at least 1 year if stored in a cool, dry place and kept in their original, unopened containers.

## MIXING RATIO:

By Volume: 3.93:1 Part A to Part B

## COVERAGE:

- CEILCOTE F/T COROCRETE Topping  
(4 bags) - 70 to 80 ft<sup>2</sup>/unit @ 1/4" (6.5 to 7.4 m<sup>2</sup>/unit)
- CEILCOTE F/T COROCRETE Fill  
(5 bags) - 1.85 ft<sup>3</sup>/unit (.05 m<sup>3</sup>/unit)

Average Depth	Coverage (sq.ft/unit)	Average Depth	Coverage (sq.ft/unit)
.5"	44.0 (4 m <sup>2</sup> )	3.5"	6.0 (.6m <sup>2</sup> )
1"	22.0 (2 m <sup>2</sup> )	4"	5.5 (.5 m <sup>2</sup> )
1.5"	14.5 (1.4 m <sup>2</sup> )	4.5"	5.0(.46 m <sup>2</sup> )
2"	11.0 (1 m <sup>2</sup> )	5"	4.5 (.4 m <sup>2</sup> )
2.5"	8.5 (.8 m <sup>2</sup> )	5.5"	4.0 (.37 m <sup>2</sup> )
3"	7.0 (.7 m <sup>2</sup> )	6"	3.5 (.3 m <sup>2</sup> )

**NOTE:** Find the required depth in the table above by dividing the square footage of the area by the unit coverage shown. The result will be the number of 2.25 gal. CEILCOTE F/T COROCRETE (Fill) units required to fill the area at the required depth.

Order one gallon of CEILCOTE COROCRETE PRIMER for every 125 to 150 ft<sup>2</sup>/gal (3 to 3.7 m<sup>2</sup>/litre) of area.

## HANDLING PROPERTIES:

(Approximate Time)

	50° (10°C)	50° (10°) w/LTC	73°F (23°C)	90°F (32°C)
<b>Working Time</b>	4 hr.	2 hr.	1 hr.	30 min.
<b>Time to Light</b>				
• Traffic	2 day	1 day	12 hr.	6 hr.
• Cure Time	7 day	3 to 4 day	72 hr.	36 hr.

## PACKAGING:

- CEILCOTE F/T COROCRETE PRIMER  
1 & 5 gal units
- CEILCOTE F/T COROCRETE  
2.25 gal unit in 3.5 gal pails
- CEILCOTE F/T COROCRETE Aggregate  
50 lb bags

**NOTE:** For use as a topping, order 4 bags of per 2.25 gallon unit. For use as a fill, order 5 bags per 2.25 gal. unit.

## STORAGE:

Storage temperature should be maintained between 60°F to 75°F (16°C to 24°C). CEILCOTE F/T COROCRETE Aggregate is stable indefinitely if kept dry.

## LIMITATIONS:

- Do not apply CEILCOTE F/T COROCRETE when the surface temperature is below 50°F (10°C).
- To speed cure between 40°F to 60°F (4°C to 16°C), use 8 fl. oz. of LTC per 2.25 gal. CEILCOTE F/T COROCRETE unit.

## APPLICATION:

### Surface Preparation:

- 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. If moisture is detected, re-test until dry.

### Primer:

**Dry Priming** - (may be required) - CEILCOTE 680 PRIMER/SATURANT

**NOTE:** Use CEILCOTE 680 PRIMER/SATURANT for extremely porous concrete, potential contamination of prepared concrete by process liquids or application in direct sunlight.

**Wet Priming** - CEILCOTE F/T COROCRETE PRIMER - Mix and apply primer per instructions.

### Placement:

1. Mechanically premix CEILCOTE F/T COROCRETE components individually (i.e. Part A, Part B) prior to blending together. After initial mixing, add CEILCOTE F/T COROCRETE Hardener to CEILCOTE F/T COROCRETE Resin liquid and mix for three to five additional minutes.
2. Pour contents into a paddle-type mortar mixer (5 Horse-power is recommended)
3. Add CEILCOTE F/T COROCRETE Aggregate to the mixer while engaged.

- **Topping (Hand Trowel)** - Add 4 (50 lb. bags) of CEILCOTE F/T COROCRETE Aggregate. (For the first batch, use only 3.5 bags to allow the mixer to wet-out).
- **Topping (Power Trowel)** - Add 4.5 (50 lb. bags) of CEILCOTE F/T COROCRETE Aggregate. (For the first batch, use only 4 bags to allow the mixer to wet-out).
- **Fill** - Add 5 (50 lb. bags) of CEILCOTE F/T COROCRETE Aggregate. (For the first batch, use only 4.5 bags)

4. After the last bag of Aggregate is added, mix at least for 30 to 60 seconds more or until all dry pockets are wet-out.
5. Discharge into a sturdy wheelbarrow.
6. Apply mixture to freshly primed surface while the primer is still wet.
7. Trowel to desired thickness using a good quality cement finishing trowel.

## 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 F/T COROCRETE contains epoxy resins and 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 concerned 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 F/T COROCRETE 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 as needed. Consult your Master Builders, Inc. representative for additional information.

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