

CEILCOTE® 242 FLAKELINE®

Vinyl ester coating

DESCRIPTION:

CEILCOTE 242 FLAKELINE coating is a flake filled, catalyzed vinyl ester system with excellent resistance to organic and inorganic acid solutions and many aliphatic solvents. The coating system consists of a primer and two topcoats, with a nominal dry film thickness of 30 to 40 mils. It can be applied on concrete and metal surfaces with proper surface preparation.

TYPICAL USES:

- Tanks.
- Trenches & pits.
- Vaults & dikes.
- Secondary containments.
- Floors.

ADVANTAGES:

- Outstanding chemical resistance.
- Can be used on concrete or steel.
- Flake filled, providing better permeation resistance.
- Quick turn around for service.

COLORS:

Gray.

PHYSICAL PROPERTIES:

Generic Type	Vinyl ester
Tabor Abrasion <i>CS 17 wheel, 1,000 gm, 1,000 revolutions</i>	78 mg
Moisture Permeability <i>ASTM E 96 Proc. E</i>	0.0016 perm in.
Tensile Strength <i>ASTM D 638</i>	2,500 to 3,000 psi (17 to 20 MPa)
Flash Point <i>Pensky-Martens Closed Cup</i>	89°F (32°C)
Service Temperature Limits (Continuous)	
• Immersion/Condensing Fumes	130°F (54°C)
• Occasional Splash & Spill	180°F (82°C)
• Continuous Dry	350°F (177°C)
Shelf Life (Expiration dates printed on labels)	
• 6 months at 70°F to 80°F (21°C to 27°C);	
• 4 months or less at 80°F to 90°F (27°C to 32°C).	
Shelf life may be reduced if stored at higher temperature.	

MIXING RATIO:

Stir thoroughly, then add 2-1/2 oz of #2C hardener per gal. of CEILCOTE 242 FLAKELINE resin.

Thinning:

DO NOT THIN.

COVERAGE:

Actual coverage is 25 to 35 ft²/gal (.6 to .86 m²/litre) @ 35 mils which depends on loss due to waste and overspray.

HANDLING PROPERTIES:

	50 °F (10 °C)	73 °F (23 °C)	90 °F (32 °C)
Working Time	1-1/2 hrs	1 hr	45 min
Recoat Time	12 to 24 hrs	4 to 8 hrs	3 to 4 hrs
Curing Time	48 hrs	24 hrs	16 hrs

PACKAGING:

4 gallon units

LIMITATIONS:

Do not apply CEILCOTE 242 FLAKELINE coating when the surface temperature is below 50°F (10°C) or over 110°F (43°C). Store in a cool, dry place away from fire hazards.

APPLICATION: (abbreviated)

For complete details, refer to Installation Procedure #2.2I for CEILCOTE 200 FLAKELINE Series.

Surface Preparation:

Steel:

For immersion or high temperature service, a "White Metal" abrasive blast (**SSPC #5-89** or **NACE #1**) is required with a minimum anchor pattern profile of 3 mils.

Concrete:

Abrasive blasting or scarification to remove laitance and surface contaminants is required. Concrete must be thoroughly cured, free of oils, curing solutions and mold release agents, dust and must be dry at time of application. Refer to ASTM D-4263.

Primers:

For Steel Surfaces:

CEILCOTE 370 primer

For Concrete:

- CEILCOTE 380 primer
- CEILCOTE 380C (Conductive) primer

APPLICATION (Abbreviated), continued:

Mechanically premix CEILCOTE 242 resin (i.e. Part A) individually prior to adding hardener. After initial mixing, add 2-1/2 oz of #2R or #2C hardener per gallon of CEILCOTE 242 resin and mix three to five additional minutes.

Base Coat:

Apply CEILCOTE 242 resin and hardener at 20 to 32 mils WFT to yield 15 to 25 mils DFT, target of 18 mils DFT. Allow to harden. Repeat for second base coat application.

Topcoat:

Apply CEILCOTE 242 resin and hardener at 20 to 32 mils WFT to yield 15 to 25 mils DFT, target of 18 mils DFT.

Application Equipment:

- **Conventional Spray:**

For equipment recommendation, please reference Installation Procedure 2.2I.

- **Air Assisted Airless:**

For equipment recommendation refer to Installation Procedure #2.2I (Special Catalyst Spray Equipment section).

- **Airless Spray:**

Normally not recommended. Consult Master Builders, Inc.

- **Brush or Roller:**

Generally requires additional applications to obtain the recommended millage. Use medium nap (3/8") mohair rollers and medium stiff natural bristle brushes.

CLEAN UP:

Use T-410 solvent, methyl ethyl ketone or lacquer thinner.
DO NOT USE ACETONE SOLVENT.

SAFETY:

- CEILCOTE 242 FLAKELINE coating contains vinyl ester resins, styrene monomer and inert flake glass filler. The hardener is an organic peroxide. The product's components have been formulated to optimize 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 application of CEILCOTE 242 FLAKELINE coating materials, always wear gloves and appropriate work clothing to minimize contact. Ventilation is required with special consideration for an enclosed or confined area. 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 and eliminate sources of ignition from work area and containers with residues.
- Observe safe storage practices by separating resins from hardeners, by keeping solvents and hardeners in a cool area free of sources of ignitions and by observing 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 the possible violent reaction between them.
- Product Material Safety Data Sheets (MSDS) and Installation Procedures are available and should be consulted when handling products. These products are for industrial and professional use only. Application directions must be followed.

For more information, contact your local Master Builders Representative.

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