

CEILCOTE 222G LSE FLAKELINE®

Low surface energy, vinyl ester coating

DESCRIPTION:

CEILCOTE 222G LSE FLAKELINE is a low surface energy vinyl ester, flake-reinforced, coating which exhibits "nonstick" characteristics. In addition to these "non-stick" properties, CEILCOTE 222G LSE FLAKELINE provides outstanding chemical and thermal resistance.

CEILCOTE 222G LSE FLAKELINE's "non-stick" properties result in the reduction of deposit buildup on the coating from chemical processes, thereby preserving their efficiency and reducing the time and effort in their maintenance.

TYPICAL USES:

- Lining for use in immersion service subjected to slurry deposits.
- Coating for use in operations exposed to process build-up.

ADVANTAGES:

- Non-stick properties reduce build-up and maintenance costs.
- Outstanding chemical resistance.
- Excellent high temperature resistance.
- Low permeation rate for longer, trouble free service.
- Easy to install.

COLORS:

Available in Dark Gray

PHYSICAL PROPERTIES:

Tensile Bond Strength (ASTM D 4541-85)	500 - 2,000 psi (3.4- 14 MPa)
Flexural Strength (ASTM D-790)	6,000 - 6,500 psi (41 - 45 MPa)
Flexural Modulus	4.5 - 5.5 x 10 ⁵ psi (3.1-3.8 GPa)
Moisture Permeability (ASTM E 96 Proc. E)	0.002 perm.in. (0.005 perm. cm)
Tensile Strength (ASTM D-638)	2,800- 3,800 pSi (19-26 MPa)
Tensile Elongation (ASTM D-638)	0.3-0.5%
Abrasion Resistance Tabor Coeff (CS17 Wheel, 1000 gm,1000 cycles)	129 mg
Density (wt./ gal.)	9.3 ± 0.2 lbs./gal.
Viscosity	2,500 - 3,400 cps @ 74°F
Flash Point (Pensky-Martens Closed Cup)	89°F (32°C)
Volatile Organic Compounds (V.O.C.) *	0.12 lbs./gal.

Service Temperature Units

(continuous)

Immersion/Condensing Fumes	130°F (54°C)
Dry/Noncondensing Fumes	350°F (177°C)

Shelf Life

2 months @ 70°F to 80°F (21° to 27°C)
30 days or less @ 80°F to 90°F (27° to 32°C)

Coverage:

Actual coverage is 50 to 60 ft.²/gal.
(1.2 to 1.5 m²/litre)

@ 17.5 mils (one coat) which includes
approximately 20% loss due to
waste and over spray.

Handling Properties (Approximate Time)

	50°F (10°C)	70°F (21°C)	90°F (30°C)
Working Time	180 min	60 min	20 min
Recoat Time	6 hrs	3 hrs	2 hrs
Cure Time	48 hrs	24 hrs	16 hrs

Packaging

3/4 gal. and 4 gal. units.

LIMITATIONS:

Store in cool, dry place, away from fire hazards.

Due to the limited shelf life, Master Builders Inc. will not warranty the shelf life of CEILCOTE 222GF and 222G LSE FLAKELINE and will not accept return of these materials.

CEILCOTE 222GF and 222G LSE FLAKELINE must be recoated within seven (7) days when shaded from sunlight. If the coating is applied in sunlight (even on cloudy days), it must be recoated within four (4) hours to obtain proper intercoat adhesion.

APPLICATION:

Surface Preparation

For immersion or intermittent splash and spillage conditions sandblast to "White Metal" in accordance with Steel Structures Painting Council Specifications SP-5-89 or NACE Specifications #1). Minimum surface profile of 3.0 mils is required.

For fumes and dry environments, sandblast to "Near White" in accordance with SP-10-89 or NACE #2.

Primer

Use CEILCOTE 370 Primer for immersion service.

Mixing

NOTE: Use CEILCOTE 222GF FLAKELINE as the Base coat. Use CEILCOTE 222G LSE FLAKELINE as the Topcoat.

Mechanically premix CEILCOTE 222 GF FLAKELINE liquid component (i.e., Part A) individually prior to blending with hardener. After initial mixing, add 2.0 fl.oz. of CEILCOTE Hardener #2C per gallon of CEILCOTE 222GF FLAKELINE liquid and mix for three to five additional minutes.

Mechanically premix CEILCOTE 222G LSE FLAKELINE liquid component (i.e., Part A) individually prior to blending with hardener. After initial mixing, add 2.0 fl.oz. of CEILCOTE Hardener #2C per gallon of CEILCOTE 222G LSE FLAKELINE liquid and mix for three to five minutes.

Placement

Spray application is recommended. Small areas may be coated by brush or roller.

Basecoat-Apply CEILCOTE 222 GF FLAKELINE at 20 to 26 mils WFT to yield 15 - 20 mils DFT. Allow to harden. For automotive applications base coat may not be required. Consult Master Builders, Inc.

Topcoat - Apply CEILCOTE 222G LSE FLAKELINE at 20 - 26 mils WFT to yield 15 - 20 mils DFT.

Thinning - None required. DO NOT THIN.

Application Equipment

Conventional Spray - Use Binks 18 or 62 Spray Gun, 66 Spray tip and needle with 63 PM, 63 PB or 63 PK aircap or other manufacturer's equivalent. Use pressure pot with 3/8 inch fluid line (maximum 30 feet length) or 1/2 inch ID fluid line when spraying at heights or where 50 feet hose length is required.

For high volume or long distance applications, a 4:1 or 8:1 ratio pump can be used to provide material to the spray gun. Adjust fluid pressure to provide adequate material to spray gun and use a minimum atomization pressure to break up and flow out with minimum overspray.

Airless Spray - Normally not recommended. Consult Master Builders Inc.

Brush or Roller Apply - When rolling or brushing, three coats will be required to achieve recommended film thicknesses.

CLEAN UP:

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

SAFETY:

CEILCOTE 222 GF and 222G LSE FLAKELINE contains vinyl ester resins, styrene monomer and inert flake fillers. The hardener is an organic peroxide. The product's components have been formulated to optimize physical lining characteristics 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 222 GF and 222G LSE FLAKELINE materials always wear gloves and appropriate work clothing to minimize contact. Ventilation is required with special consideration for 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, 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 labels represent amine-type chemicals, and the YELLOW labels represent 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 Bulletins 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.

TECHNICAL ASSISTANCE:

For technical assistance, please contact your Master Builders Inc. representative.

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