

# CEILCOTE® 211 FLAKELINE®

*Catalyzed polyester coating*

## DESCRIPTION:

CEILCOTE® 211 FLAKELINE® coating is a flake filled, catalyzed polyester system with good resistance to acids, salts and many organic solvents. CEILCOTE 211 FLAKELINE coating is a rapid cure version which must be applied with special spray equipment.

## TYPICAL USES:

- Metal processing areas.
- Oil production facilities.
- Chemical processing plants.
- Waste treatment systems.

## ADVANTAGES:

- Can be applied over concrete or steel.
- Excellent resistance to acids.
- Low permeability.
- Reinforced with laminar flake particles.

## COLORS:

Off white

## PHYSICAL PROPERTIES:

### Generic Type

Catalyzed polyester resin system

### Density

10.0 ± 0.2 lbs per gal (1.2 ± 0.09 kg per liter)

### Viscosity

3,500 to 4,000 cps @ 77°F (25°C)

### Flash Point

Pensky Martens Closed Cup

93°F (34°C)

### Volatile Organic Compounds (VOC)

Lab 23 method of Reg. 8-4-111 of California Code

0.28 lbs. per gallon (0.03 kg per liter)

### Tensile Strength

ASTM D-638

2500 to 3000 psi (17 to 20 MPa)

### Taber Abrasion Factor

CS17 Wheel, 1000 gm.wt., 1000 revolutions 78

### Water Vapor Transmission

ASTM E96 Proc.E

0.016 perm inches

### Shelf Life

Shelf life is:

- 10 months @ 40°F to 70°F (4°C to 21°C)
- 6 months @ 80°F (27°C)
- 3 months @ 90°F (32°C)

### Temperature Resistance

- Continuous Dry 350°F (177°C)
- Immersion or Condensing Vapors 130°F (54°C)

## MIXING RATIO:

2 oz. of #3R Hardener (off white) per gal. of CEILCOTE 211 FLAKELINE liquid.

**Thinning:** None required. DO NOT THIN.

## COVERAGE:

Actual coverage is 25 to 35 ft<sup>2</sup>/gal (.6 to .85 m<sup>2</sup>/litre)

@ 35 mils which includes approximately 20% loss due to waste and overspray.

## HANDLING PROPERTIES:

(Approximate Time)

|               | 50°F<br>(10°C) | 73°F<br>(23°C) | 90°F<br>(32°C) |
|---------------|----------------|----------------|----------------|
| Working Time  | 15 to 20 min.  | 7 to 12 min.   | 2 to 5 min.    |
| Recoat Time   | 6 hrs.         | 2 hrs.         | 1 hr.          |
| Cure to Touch | 12 hrs.        | 4 hrs.         | 2 hr.          |
| Cure Time     | 48 hrs.        | 24 hrs.        | 16 hrs.        |

## PACKAGING:

Available in 5 gal and 30 gal units.

## LIMITATIONS:

Store in a cool dry place away from fire hazards.

## APPLICATION: (abbreviated )

### Surface Preparation:

#### Metal:

For immersion or intermittent splash and spillage conditions abrasive blast to "White Metal" in accordance with Steel Structures Painting Council Specifications SP-5-89 or NACE Specification #1. For fumes and dry environments abrasive blast to "Near White" in accordance with SP-10-89 or NACE #2. Minimum surface profile of 3.0 mils is required.

#### 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 a time of application.

### Application:

Plural component spray equipment is required for CEILCOTE 211 FLAKELINE coating. For complete details refer to CEILCOTE 200 FLAKELINE series Installation Procedure #2.2I.

### Number of Coats and Thickness:

Each coat requires application of 20 to 26 mils wet film thickness to achieve 15 - 20 mils dry. Minimum 2 coats is normally required.

## **CLEAN UP:**

Use T-410 Solvent, methyl ethyl ketone or lacquer thinner.  
Do not use acetone solvent.

## **SAFETY:**

CEILCOTE 211 FLAKELINE coating contains polyester 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 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 211 FLAKELINE materials always wear gloves and appropriate work clothing to minimize contact. Ventilation is required with special consideration of 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 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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