

Description

CEILCOTE® 252 FLAKELINE coating is a flake glass filled, catalyzed polyester system which exhibits excellent resistance to acids, salts, alkalis and many organic solvents.

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
- Flake filled, providing better permeation resistance
- Meets FDA Requirements

Color

Off white and gray Consult Ceilcote for special colors

Chemical Resistance

Information on the chemical resistance properties will be furnished on request.

Substrate

Refer to Ceilcote steel specification CPT-2 or Ceilcote concrete specification CPT-1.

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 or Sa3 (ISO 8501-1:2007) NACE Specification #1**. For fumes and dry environments abrasive blast substrate to "Near White", in accordance with **SP-10 (Sa2½ (ISO 8501-1:2007) or NACE #2**. A minimum surface profile of 3.0 mils (75 microns) is required.

Concrete – Abrasive blasting or scarification to remove laitance and surface contaminants is recommended. Concrete must be thoroughly cured, free of oils, curing solutions and mold release agents, dust and must be dry at time of application. Use ASTM D 4263 (plastic sheet test method) to ensure concrete is moisture free. If moisture is detected, re-test until dry.

Application

The coating system consists of a primer, a base coat and a topcoat, with a nominal dry film thickness of 30 to 40 mils (750-1000 microns).

Mixing Ratio	By Volume
<u>CEILCOTE 380 Primer</u>	
380 Primer Resin	1 gal (3.79 liters)
#2 Hardener	2.5 oz (74 ml)
<u>CEILCOTE 252 Flakeline</u>	
252 Flakeline Resin	1 gal (3.79 liters)
#3 Hardener	2 oz (60 ml)

Priming

Prime surfaces with 2.0 to 5.0 wet mils (50-125 microns) of Ceilcote 380 Primer. Use CEILCOTE 380 Primer with the addition of CEILCOTE C#1 Powder (5.2 lbs per 5 gal unit / 2.4kgs per 18.93 liter unit) when spark testing (high voltage holiday testing) will be conducted on concrete.

Mechanically premix CEILCOTE 252 resin (i.e. Part A) 2 minutes individually prior to adding hardener. After initial mixing, add 2oz (60ml) of #3C Hardener per 1 gallon (3.79 ltr) of CEILCOTE 252 resin and mix three additional minutes.

Apply CEILCOTE 252 resin and hardener at 20 to 32 mils (500-800 microns) WFT to yield 15 to 25 mils DFT (375-625 microns), target of 18 mils DFT (450 microns). Allow to harden. Repeat for second coat application.

Thinning

None required. DO NOT THIN.

Application Equipment

Material may be applied by spray, brush or roller. See installation procedure for equipment recommendations.

Brush or Roller

When applied by brush or roller, three coats may be required to achieve recommended film thickness.

Handling Properties

Working Time	380 Primer	252 Flakeline
50°F (10°C)	approx. 60 min	approx. 100 min
70°F (21°C)	approx. 45 min	approx. 1 hr
90°F (32°C)	approx. 20 min	approx. 45 min

Recoat	380 Primer	252 Flakeline
50°F (10°C)	approx. 5 hrs	12-24 hrs
70°F (21°C)	approx. 2 hrs	4-8 hrs
90°F (32°C)	approx. 1 hrs	3-4 hrs

Time to Place in Service	
50°F (10°C)	48 hrs
70°F (21°C)	24 hrs
90°F (32°C)	16 hrs



Coverage

CEILCOTE 380 Primer
concrete approx. 160 - 200 ft²/gal (3.9-4.9 m²/liter)
(with C-1 Powder) approx. 140 - 160 ft²/gal
(3.4-3.9 m²/liter)
steel approx. 250 - 300 ft²/gal (6-7.2m²/liter)
CEILCOTE 252 Flakeline
25 to 35 ft²/gal (.6 to .85 m²/liter)

Packaging

The following standard packages are available:
CEILCOTE 380 Primer 1, 5, 30 gal units **(3.79, 18.93, 113.55 liter units)**
CEILCOTE 252 Flakeline 1, 5, 30 gal units **(3.79, 18.93, 113.55 liter units)**

Storage

Store material in a cool, dry and covered location, away from fire hazards and direct sunlight. Minimum shelf life* at 70°F (21°C) for products indicated below:

CEILCOTE 380 Primer 6 months
CEILCOTE 252 Flakeline 6 months

Higher temperatures will shorten the shelf life of these products. The packing drums are to be kept tightly sealed and are to be resealed each time materials have been removed. All liquid products are to be stored in a frost-free place.

Safety

CEILCOTE 252 Flakeline contains polyester resins and MEK peroxide 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 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 252 Flakeline 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 liquid, 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 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 CEILCOTE representative for additional information.

Technical and Physical Data

	Test Standard	Unit	Value
Generic Type			polyester
Viscosity - mixed	ASTM D 2393	cps	3,500-4,000 @ 77 °F
Tensile Bond Strength	ASTM D 4541	Psi (MPa)	1,200-1,500 (8-10)
Tensile Strength	ASTM D-638	Psi (MPa)	2,500-3,000 (17-20)
Density (wt. per gal)	ASTM D 1475	lbs/gal (kg/liter)	10.0 ± 0.2 (1.2 ± 0.02)
Moisture Permeability	ASTM E96 Proc. E	perm inch	0.0016
Service Temperature Limits	Immersion/Condensing Fumes Continuous Dry	°F (°C)	140 (60) 350 (177)
Tabor Abrasion	CS 17 wheel, 1,000 gm, 1,000 revolution	mg	78
Volatile Organic Compounds	EPA Method 24	lbs/gal (g/l)	3.06 (367.2)
Flash Point	Pensky Martens Closed Cup	°F (°C)	93°F (34°C)

Important Note

The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to law) any loss or damage arising out of the use of the product. WE HEREBY DISCLAIM ANY WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. All products supplied and technical advice given are subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local International Paint representative that this data sheet is current prior to using the product.

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