

Penncoat™ 310 ESD Lining

SELECTION & SPECIFICATION DATA

Uses

Type Vinyl Ester Electrostatic Dissipative Lining

Description

Penncoat™ 310 ESD Lining is a high-solids modified vinyl ester electrostatic dissipative lining.

 Trenches, sumps, and secondary containment areas where flammable chemicals are used in flavor, fragrance, chemical, and pharmaceutical

processing facilities.

· Floors subject to foot and light fork truck traffic

Features

• 10⁶ -10⁸ ohms electrical resistance per ANSI/ESD STM7.1-2020 when applied over Penntrowel™

VE Conductive Primer

 Resists corrosive effects of dilute inorganic acids, alkalis, alkaline salts, acid salts, oils, grease, milk products, fats, blood, most dilute

organic acids and many solventsUV-resistant for exterior use

SUBSTRATE & SURFACE PREPARATION

All Substrate must be clean, dry and free of

contaminants

Steel Immersion: SSPC-SP 10/NACE 2 Near White Metal

Blast with angular profile of 2.5 - 3.5 mils.

Non-immersion: SSPC-SP 6/NACE 3 Commercial Blast with angular profile of 1.5 - 3.0 mils.

Concrete Concrete must be cured 28 days at 75°F (24°C) and

50% relative humidity or equivalent. Prepare surfaces in accordance with SSPC-SP 13/NACE 6. Required surface profile is CSP 3-5. Voids in concrete surfaces may require filling. Mortar joints

should be cured a minimum of 15 days.

Prime steel and concrete with Penntrowel VE $\,$

Conductive Primer.

MIXING & THINNING

Ratio 1 gallon Part A resin: 2.0 – 3.0 fl. oz. Part B hardener by

volume, 1: 0.016 by weight.

Mixing Stir resin until uniform in consistency. Continue mixing

while slowly adding the hardener into the center vortex, and mix thoroughly for 3 minutes, moving the mix blade up, down and around the pail to catch all

the edges.

Thinning Do not thin.

Pot Life 50°F (10°C) 75°F (24°C) 90°F (32°C)

60 minutes 30 minutes 15 minutes

Pot life is shorter at higher temperatures. A larger volume of mixed material will have a shorter pot life

than a smaller volume.

Cleanup Methyl ethyl ketone or lacquer thinner

APPLICATION GUIDANCE

Installation CES-259 Installation Specification for Penncoat 331

Specification and 340 Linings

Installation Penncoat 310 ESD Lining is formulated for ideal

Conditions handling at 70°F (21°C). Materials and substrate should be acclimated to the air temperature prior to

installation, and the air temperature should be between 50°F (10°C) and 90°F (32°C) during

installation and cure.

Brush Brush application in small areas

Roller Short nap or mohair phenolic core roller

Spray Consult Armor for guidance

CURE TIME & RECOAT WINDOW

Substrate Temperature	Initial Set	Minimum Recoat	Maximum Recoat	Full Cure
50°F (10°C)	5 hours	12 hours	7 days	48 hours
75°F (24°C)	2 hours	4.5 hours	7 days	24 hours
90°F (32°C)	1.5 hours	3 hours	3 days	8 hours

When surface temperatures exceed 95°F (35°C) or are exposed to direct sunlight, overcoating should take place as soon as coating may be walked on or handled without marring in order to avoid intercoat adhesion issues.



Penncoat™ 310 ESD Lining

PACKAGING, ESTIMATING & HANDLING

Product	Code	Packaging
Penncoat 310 ESD Lining Resin Dark Gray	19651	4.4-gal (43 lb) pail
CHP Hardener	19552 21922	11.2 fl. oz. (0.7 lb) bottle 1 gal (8.3 lb) can

A 4.5-gal unit consists of 1 x 44-lb pail resin and 1 x 0.7 lb bottle hardener.

Theoretical Coverage

720 ft² (66.9 m²) per 4.5-gal unit at 10 mils

Storage & **Shelf Life**

Maintain products in original packaging and sealed until ready for use. Estimated shelf life of resin is 6 months, and hardener is 1 year when stored in a dry area at 70°F (21°C). Warmer resin storage conditions will dramatically reduce shelf life. Store resin between 55°F (13°C) and 65°F (18°C) for maximum shelf life. Actual shelf life may vary with storage conditions.

If there is any question with respect to the quality of the components, check reactivity prior to use. For assistance consult with Armor.

Safety

Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.

Ventilation

Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
Color	Dark gray
Gloss	Not applicable
Density	9.86 lb/gallon (1.21 kg/L)
Solids content	100% reactive

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