

## SELECTION & SPECIFICATION DATA

<b>Type</b>	Vinyl Ester Electrostatic Dissipative Lining
<b>Description</b>	Penncoat™ 310 ESD Lining is a high-solids modified vinyl ester electrostatic dissipative lining.
<b>Uses</b>	<ul style="list-style-type: none"> <li>• Trenches, sumps, and secondary containment areas where flammable chemicals are used in flavor, fragrance, chemical, and pharmaceutical processing facilities.</li> <li>• Floors subject to foot and light fork truck traffic</li> </ul>
<b>Features</b>	<ul style="list-style-type: none"> <li>• 10<sup>6</sup> -10<sup>8</sup> ohms electrical resistance per ANSI/ESD STM7.1-2020 when applied over Penntrowel™ VE Conductive Primer</li> <li>• Resists corrosive effects of dilute inorganic acids, alkalis, alkaline salts, acid salts, oils, grease, milk products, fats, blood, most dilute organic acids and many solvents</li> <li>• UV-resistant for exterior use</li> </ul>

## SUBSTRATE & SURFACE PREPARATION

<b>All</b>	Substrate must be clean, dry and free of contaminants
<b>Steel</b>	<p>Immersion: SSPC-SP 10/NACE 2 Near White Metal Blast with angular profile of 2.5 - 3.5 mils.</p> <p>Non-immersion: SSPC-SP 6/NACE 3 Commercial Blast with angular profile of 1.5 - 3.0 mils.</p>
<b>Concrete</b>	<p>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.</p> <p>Prime steel and concrete with Penntrowel VE Conductive Primer.</p>

## MIXING & THINNING

<b>Ratio</b>	1 gallon Part A resin: 2.0 – 3.0 fl. oz. Part B hardener by volume, 1: 0.016 by weight.		
<b>Mixing</b>	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.		
<b>Thinning</b>	Do not thin.		
<b>Pot Life</b>	50°F (10°C) 60 minutes	75°F (24°C) 30 minutes	90°F (32°C) 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.		
<b>Cleanup</b>	Methyl ethyl ketone or lacquer thinner		

## APPLICATION GUIDANCE

<b>Installation Specification</b>	CES-259 Installation Specification for Penncoat 331 and 340 Linings
<b>Installation Conditions</b>	Penncoat 310 ESD Lining is formulated for ideal 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.
<b>Brush</b>	Brush application in small areas
<b>Roller</b>	Short nap or mohair phenolic core roller
<b>Spray</b>	Consult ErgonArmor 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.

**PACKAGING, ESTIMATING & HANDLING**

<b>Product</b>	<b>Code</b>	<b>Packaging</b>
Penncoat 310 ESD Lining Part A Resin Dark Gray	19651	4.4-gal (44 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.		
<b>Theoretical Coverage</b>	720 ft <sup>2</sup> (66.9 m <sup>2</sup> ) per 4.5-gal unit at 10 mils	
<b>Storage &amp; Shelf Life</b>	<p>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). Actual shelf life may vary with storage conditions.</p> <p>If there is any question with respect to the quality of the components, check reactivity prior to use. For assistance consult with ErgonArmor.</p>	
<b>Safety</b>	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.	
<b>Ventilation</b>	Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.	

**TYPICAL PHYSICAL PROPERTIES**

<b>Property</b>	<b>Typical Value</b>
Color	Dark gray
Gloss	Not applicable
Density	10.1 lb/gallon (1.21 kg/L)
Solids content	100% reactive

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