

# CE-256 Page 1 of 2 Penncoat<sup>™</sup> 310/310 MR Lining

SELECTION & SP	ECIFICATION DATA	<u>MIXING &amp; THI</u>	NNING			
Туре	Flake filled vinyl ester lining	Ratio	1 gallon Part A resin: 2 – 3 fl. oz. Part B hardener			
Description	Penncoat 310 Lining is a flake filled vinyl ester lining system with excellent resistance to organic and inorganic acids and many aliphatic solvents. Penncoat 310 MR Lining incorporates a 1 oz. mat reinforcement into the primer layer to reduce crack transmission.	Mixing	Mix Part A with a power mixer to combine the entire contents into a homogenous mixture. Add CHP Hardener to resin at a rate of 2-3 fl. oz. per gallon (1.5 to 2.25% by weight) and mix thoroughly using a power mixer. Do not thin.			
Features	Broad resistance to most acids, alkalis and     alinhatic schurzte	Pot Life	50°F (10° 60 minut			
	<ul> <li>aliphatic solvents</li> <li>Flake filled to reduce permeability</li> <li>Chopped strand mat in the primer layer of Penncoat 310 MR Lining reduces potential for concrete crack transmission</li> </ul>		volume o	s shorter at higher of mixed material naller volume.		
	Installation by airless spray, roller or brush	Cleanup	Methyl e	thyl ketone or lac	quer thinner	
Uses	<ul> <li>Tank linings</li> <li>Steel structures</li> <li>Chemical resistant floor coating</li> </ul>	APPLICATION	GUIDANCE			
	<ul> <li>Chemical splash and spill areas</li> <li>Secondary containment lining</li> </ul>	Installation Conditions	at 70°F (2 tempera	t 310 Lining is for 21°C). Use when su tures are between ad substrate temp	urface, air and ma n 50°F (10°C) and	aterial 110°F
Colors	Gray, Dark Gray			e dew point.		51 (5 C)
Finish	Gloss	Airless Spray	30:1 to 56:1 Pump Tip range 0.027 – 0.033			
Typical Thickness	14 – 16 mils (356 – 406 microns) WFT per coat to yield 12 – 14 mils (279 – 305 microns) DFT without MR reinforcing layer.	Roller	Multiple coats may be required to achieve specified film thickness.			
Solids Content	100% reactive	Brush	Multiple coats may be required to achieve specified film thickness.			
SUBSTRATES & 2	SURFACE PREPARATION	Work	Do not le	ave material in h	oses auns or spra	av.
All	Substrates must be clean, dry and free of contaminants	Stoppages	Do not leave material in hoses, guns or spray equipment. Thoroughly flush all equipment with appropriate cleaner. Do not reseal mixed material. Continue work until all mixed material is consumed. Material that has begun to gel cannot be recovered			
Steel	Immersion: SSPC-SP 5 White Metal Blast with a minimum angular profile of 3 mils.		by adding fresh material.			
	Non-immersion: SSPC-SP 6 Commercial Blast with a minimum angular profile of 3 mils. SSPC-SP 2	CURE TIME & RECOAT WINDOW				
	Hand Tool or SSPC-SP 3 Power Tool Cleaning are suitable for mild environments.	Substrate Temperature	Initial Set	Minimum Recoat	Maximum Recoat	Full Cure
	Self-priming on steel.	50°F	5 hours	12 hours	7 days	48 hours
Concrete or	Concrete must be cured 28 days at 75°F (24°C)	75°F	2 hours	4.5 hours	7 days	24 hours
Concrete	and 50% relative humidity or equivalent. Prepare surfaces in accordance with SSPC-SP 13 Surface	90°F	1.5 hours	3 hours	3 days	8 hours
Masonry Units (CMU)	surfaces in accordance with SSPC-SP 13 Surface Preparation of Concrete. Voids in concrete may require filling. Mortar joints should be cured a minimum of 15 days. Prime with Penntrowel™ Vinyl Ester Primer.	When surface temperatures exceed 95°F (35°C) or are exposed to direct sunlight, overcoating should take place as soon as the coating may be walked on or handled without marring in order to avoid intercoat adhesion issues.				



## CE-256 Page 2 of 2 Penncoat<sup>™</sup> 310/310 MR Lining

#### **SAFETY**

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.

#### **PACKAGING & ESTIMATING**

Product	Code	Packaging		
Penncoat 310 Gray	19709	4.6 gal (45 lb) in a 5-gal pail		
Penncoat 310 Dark Gray	19710	4.6 gal (45 lb) in a 5-gal pail		
CHP Hardener	19552 21922	11.2 fl. oz. (0.7 lb) bottle 1 gal (8.3 lb) can		
1.0-oz Chopped Strand Glass Mat	19639	50-inch x 375-foot (1,500 square foot) roll		
1.5-oz Chopped Strand Glass Mat	19640	50-inch x 264-foot (1,056 square foot) roll		
Theoretical Coverage	100 –115 square feet per mixed gallon applied at 14 – 16 mils (356 – 406 microns) WFT per coat will yield 11 – 12 mils (279 – 305 microns) DFT. 2 coats required. Target is 23 mils (584 microns) DFT for 2 coats.			
	For Penncoat 310 MR Lining, allow 1 gallon of Penntrowel VE Primer per 50 square feet of Chopped Strand Glass Mat as saturant.			
Storage & Shelf Life	in original packaging and or use. Estimated shelf life is red in a dry area at 70°F life may vary with storage e at 40°F (4°C) will d shelf life. tion with respect to the g components, check se. For assistance consult			

### **TYPICAL PHYSICAL PROPERTIES**

Property	Typical Value	
Wet density	9.8 lb per gallon	
Viscosity, mixed material	4,000-6,500 cps at 72°F (22°C)	
VOC content by weight	0.12 lb/gal	
Abrasion resistance, ASTM D4060	82 mg loss/1,000 cycles with 1,000-gram (CS-17) wheel	
Maximum dry service temperature	280°F (137°C)	

Temperature limitations will vary with chemical service. Consult ErgonArmor Technical Service for guidance.

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