DESCRIPTION

Solvent Free Epoxy Lining

PRINCIPAL CHARACTERISTICS

- · High build, single coat protection
- · High gloss
- · Easy cleaning
- Low odor during application
- · Non-flammable
- Meets VOC regulations
- · Heated plural component application
- · More flexible and abrasion resistant than conventional epoxy coatings
- Compliant with US FDA 21 CFR 175.300 for food grade cargoes

COLOR AND GLOSS LEVEL

- Railcar blue
- Gloss

Note: Epoxy coatings will chalk and fade upon exposure to sunlight, elevated temperatures, or chemical exposure. Discoloration and normal chalking does not impact performance. Light colors will darken over time. Some batch-to-batch variation in color is to be expected. Color matches are approximate.

BASIC DATA AT 68°F (20°C)

Data for mixed product		
Number of components	Two	
Volume solids	100%	
VOC (Supplied)	max. 0.8 lb/US gal (approx. 99 g/l)	
Recommended dry film thickness	8.0 - 16.0 mils (200 - 400 µm) depending on system	
Theoretical spreading rate	134 ft²/US gal for 12.0 mils (3.3 m²/l for 300 μm)	
Shelf life	Base: at least 12 months when stored cool and dry Hardener: at least 12 months when stored cool and dry	

Notes:

- The target dry film thickness for plastic pellet service is 8-10 mils.
- See ADDITIONAL DATA Overcoating intervals
- See ADDITIONAL DATA Curing time

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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Mild steel

- Remove all surface contaminants, oil and grease in accordance with SSPC SP-1
- Abrasive blast clean to SSPC-SP10 (ISO8501-1 Sa 2.5). Blast with an angular abrasive to achieve an anchor profile of 2.0 4.0 mils (50 – 100 μm) as indicted by a Keane-Tator Surface profile Comparator or Testex Tape
- Contact PPG for maximum allowable salt containment levels
- Ensure surface is dust free after blasting

Repair

- Remove all rust, loose paint, grease or other contaminants preferably by spot abrasive blast from damaged areas abraded to bare steel. For smaller areas, abrade the steel in accordance with SSPC SP-11 standards to create a uniform and dense anchor profile
- Taper abrade the perimeter of the repair area to a feathered edge extending 1 3 inches from the steel
- Apply AMERCOAT 428 PCLO to the repair area at a minimum of 8.0 mils (200 μm), overlapping the previously feathered edge

Substrate temperature and application conditions

- Surface temperature during application should be between 40°F (4°C) and 120°F (49°C)
- Surface temperature during application should be at least 5°F (3°C) above dew point
- Ambient temperature during application and curing should be between 40°F (4°C) and 120°F (49°C)
- Relative humidity during application should be between 0% and 85%

SYSTEM SPECIFICATION

• To be applied in one coat at 8.0-16.0 mils.

Note: Maximum loading temperature is 120°F unless evaluated and approved by PPG technical service.

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 50:50 (1:1)

Jiffy mixer, Ensure feed tanks and drums remain thoroughly mixed at low speed to ensure homogenization

Pot life

20 minutes at 70°F (21°C)

Note: See ADDITIONAL DATA - Pot life

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Application

- Area should be sheltered from airborne particulates and pollutants
- Avoid combustion gases or other sources of carbon dioxide that may promote amine blush and ambering of light colors
- Ensure good ventilation during application and curing
- Provide shelter to prevent wind from affecting spray patterns

Material temperature

Material temperature during application should be between 110°F (43°C) and 130°F (54°C)

Airless spray: Plural component

- 1:1 Heated Plural Component Spray
- 5:1 or 10:1 transfer pumps
- · Hoses should normally be kept as short as possible
- Gel time at 120 F is approximately 5 minutes (maximum)
- Achieve 3,500-4,500 psi
- Use a 12" x 3/8", 24 element static mixer
- Optiumum temperature at the gun is 105 115 F

Recommended thinner

No thinner should be added

Nozzle orifice

0.017 - 0.019 in (approx. 0.43 - 0.48 mm)

Nozzle pressure

3500 - 4500 p.s.i. (approx. 242 - 311 bar; 24.1 - 31.0 MPa)

Brush/roller

- Product may be applied via brush and roller by mixing small quantities and applying immediately. Touch up kits for America 428PCLO are available.
- If needed for touch up, collect a small quantity from the static mixer and apply to the repair area with a well loaded, natural bristle brush
- Be aware the gel time is typically less than 10-15 minutes

Recommended thinner

Thin with up to 5% Amercoat 65 Thinner (Thinner 21-06)

Cleaning solvent

AMERCOAT 12 CLEANER

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ADDITIONAL DATA

Overcoating interval for	vercoating interval for DFT up to 16.0 mils (400 μm)				
Overcoating with	Interval	50°F (10°C)	70°F (21°C)	90°F (32°C)	120°F (49°C)
itself	Minimum	12 hours	6 hours	4 hours	2 hours
	Maximum	3 days	48 hours	24 hours	N/A

Notes:

- Prior to overcoating, solvent wipe surface with AMERCOAT 65 or AMERCOAT 12 Cleaner
- Roughen surface when maximum recoat or topcoating time is exceeded

Curing time for DFT up to	uring time for DFT up to 16.0 mils (400 μm)		
Substrate temperature	Dry to touch	Dry to handle	
50°F (10°C)	6 hours	20 hours	
70°F (21°C)	4 hours	12 hours	
90°F (32°C)	3 hours	7 hours	
120°F (49°C)	1 hour	4 hours	

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
50°F (10°C)	35 minutes	
70°F (21°C)	20 minutes	
90°F (32°C)	12 minutes	
110°F (43°C)	8 minutes	
130°F (54°C)	3 minutes - 5 minutes	

SAFETY PRECAUTIONS

• For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets

WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

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REFERENCES

•	CONVERSION TABLES	INFORMATION SHEET	1410
•	EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
•	SAFETY INDICATIONS	INFORMATION SHEET	1430
•	SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD -	INFORMATION SHEET	1431
	TOXIC HAZARD		

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Packaging: Available in 55 gallon drums (50 gallon fill), 10 gallon kits (2,5 gallon cans), 1 quart touch-up kits

Product code	Description
AT428-419	Railcar Blue Base
AT428L-B	Hardener

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