



Fast Clad[®] ER

Rapid Cure Epoxy

Fast Clad ER Epoxy is an edge-retentive, ultra high-solids epoxy amine coating engineered for immersion service in seawater ballast tanks, fuel/seawater ballast tanks, and petroleum storage tanks. This single coat application saves time, schedule, and money.



Features

- 24 hour return to service
- 70% + edge protection
- 1 coat protection
- 40°F application temperature
- 50% more flexible than competitive linings
- Can be used in conjunction with cathodic protection
- Available with Opti-Check™ OAP Technology
- Can be applied up to 60 mils in one coat

Benefits

- Increased asset productivity
- Extended asset protection
- Increased project savings
- Extended painting season
- Increased resistance to cracking and disbondment
- U.S. Navy tested and MIL-PRF 23236 approved for ballast, fuel and CHT tanks.

Recommended Uses

- Ballast tank interiors, oil storage tank interiors and floating roofs
- Fuel storage tanks and external pipe coating
- Primary or secondary containment
- Meets MIL-PRF-23236 Type VII, Class 5/18, 7/18, 13/18 requirements for single coat seawater, fuel and CHT tanks

U.S. Navy findings after extensively studying the impact of using Fast Clad ER:

- 20% overall cost savings
- 50% schedule savings
- 44% reduction in associated facilities and utilities cost
- 67% labor savings



Product Characteristics

Finish:	Gloss
Color:	White-Base, Blue OAP
Volume Solids:	98%, ± 2%, mixed
Weight Solids:	98%, ± 2%, mixed
VOC (EPA method #24):	<85 g/L; 0.71 lb/gal, mixed
Mix Ratio:	1:1 by volume

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	18.0 450	22.0 550
Dry mils (microns)	18.0 450	22.0 550
~Coverage sq ft/gal (m²/L)	73 1.8	89 2.2

*Can be applied up to 60.0 mils (1500 microns) dft if required.
Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft **1568** 38.4

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 20.0 mils (200 microns):

	@ 40°F/4.5°C	@ 77°F/25°C 50% RH	@ 100°F/38°C
To touch:	6 hours	1 hour	35 minutes
To handle:	8-12 hours	3 hours	55 minutes
To recoat:			
minimum:	6 hours	1 hour	35 minutes
maximum:	14 days	14 days	14 days
Foot traffic:	8-12 hours	3 hours	1 hour
Cure to service:	36 hours	24 hours	12 hours
Pot Life:		7 minutes	
Sweat-in-Time:		None required	

Shelf Life:	24 months Store indoors at 40°F (4.5°C) to 100°F (38°C)
Flash Point:	230°F (110°C), PMCC, mixed
Reducer:	Not recommended
Clean Up:	MEK (R6K10) or Reducer R7K104

Performance Characteristics

Surface Preparation: SSPC-SP10

System Tested:

1 ct. Fast Clad ER Epoxy @ 18.0-22.0 mils (450-550 microns) DFT

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	22.4 mg loss
Adhesion	ASTM D4541	870 psi
Cathodic Disbondment	ASTM G8	Passes 30 days @ 1.5 volts (Cu/CuSO ₄), <10 mm disbondment radius
Corrosion Weathering	ASTM D5894, 4 cycles, 1134 hours	Rating 10 per ASTM D610 for Rusting (field); Rating 10 per ASTM D714 for Blistering (field)
Direct Impact Resistance	ASTM D2794	15 in-lb
Dry Heat Resistance	ASTM D2485	250°F (121°C)
Flexibility	ASTM D522	7/16" (24-hour cure)
Moisture Condensation Resistance	ASTM D4585, 100°F (38°C), 2000 hours	Rating 10 per ASTM D610 for Rusting (field); Rating 10 per ASTM D714 for Blistering (field)
Pencil Hardness	ASTM D3363	H

Immersion (ambient temperature) for the following:

- Ballast tank mix Recommended
- Crude oil Recommended
- Fresh water Recommended
- Gasoline Recommended
- Sea water..... Recommended
- Reformulated gasoline Recommended
- Kerosene Recommended

Epoxy coatings may darken or yellow after application and curing.

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