



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.

A complete line of products. Market expertise. On-time distribution. What else would you expect from a world leader in protective coatings and linings?

It starts with a complete line of time-tested, high-performance products and some of the most innovative and greenest technologies in the coatings industry. But we know that it takes more than product alone to be a world leader in protective coatings and linings. And so do the customers that rely on us every day as we help them protect their business.

That's where nearly 150 years of coatings industry experience comes in. Add to that a NACE-trained workforce with a combined 3,700 years of experience in corrosion control. The market-specific knowledge that our experts provide to evaluate, recommend and deliver the highest-performance coatings and linings that protect our customers' assets.

It also means that we deliver on time, every time from 4,000 company-owned distribution points worldwide. Leave nothing to chance. Your single source of supply. Sherwin-Williams.



To learn more, visit us at

www.sherwin-williams.com/protective

or call 1-800-524-5979

to have a representative contact you.