Defend 220™

ADVANCED POLYMER COATINGS

DESCRIPTION

Defend 220™ is built on smarter chemistry, an innovative dual-resin hybrid formulation that delivers the durability of a multi-coat system in a single, simplified direct-to-metal (DTM) application. This high-solids Novolac lining replaces traditional two-coat epoxies with one streamlined layer, applied by single-leg or plural component equipment, and returns tanks to service in as little as four days.

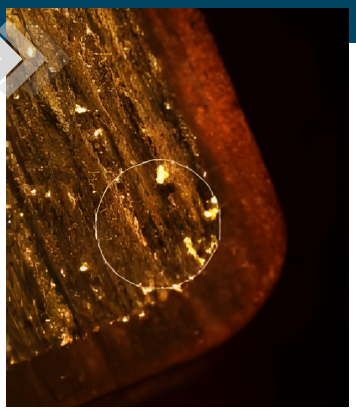
But Defend 220™ isn't just fast, it's engineered for real-world performance. With superior mechanical flexibility, chemical resistance, and long-term resilience, it sets a new standard in tank lining technology. Designed to simplify application without sacrificing strength, it shortens the path from coating to operation, keeping fleets moving, assets protected, and turnaround times under control.

Property	Defend 220™
Pot Life	1 hour at 77ºF (25ºC)
Sag	18+ mils (450 microns)
Linear Dry Time	4 hrs
Conversion	~80% after 3 days
Hardness	88
Gloss (60')	60-75
Direct Impact (in-lb)	80
Adhesion (psi)	~2,650
VOC (g/L)	58 g/L (0.48 lb/gal) when mixed
% solids by Volume	93



PERFORMANCE DATA

Edge Retention Testing	NACE TM0304	% edge retention: 95.6
Adhesion Testing	ASTM D4541	SSPC-SP 10, 3-4 mill profile: 2,326 psi
Direct Impact Testing	ASTM D2794	4 lb weight, 0.625" diameter: 80 in-lbs
Hardness Testing	ASTM D2240	Shore D: 88
Taber Abrasion Testing	ASTM D4060	CS-17 wheels, 1000 cycles: 173 mg
Dry Heat Exposure Testing	ASTM D2485	720 hours 120ºC: No dulling, cracking, or blistering
Dry Heat Exposure Post Adhesion	ASTM D4541	SSPC-SP 10, 3-4 mil profile: 2,189 psi



Defend 220™ streamlines coating application from 2+ steps to **just 1.**

