



American 5440-2 Novolac Lining

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type	A two-component, flake filled 100% solids high functionality epoxy coating.
Description	A two-component, flake filled 100% solids high function epoxy coating. It is a high build advanced technology epoxy lining system designed for early-return-to-service use for petroleum refining industry. This product can be applied at temperatures as low as 35°F (2°C). Max working temperature is 300°F (149°C) in dry service.
Features	<ul style="list-style-type: none"> • High performance tank lining • Lower temperature cure • Faster return to service • Great overall chemical resistance • Great immersion temperature range
Color	Green (0300)
Dry Film Thickness	<p>20 - 40 mils (508 - 1016 microns) per coat</p> <p>One to two coats.</p> <p>A single continuous film (100% holiday free) is acceptable for most service. For badly corroded steel roll the affected areas then spray apply 20-40 mils.</p>
Typical Uses	<ul style="list-style-type: none"> • Vessel or tank lining - especially where 24 hr return service is required (Note: 48 hrs is required if temperature is below 50°F/10°C) • Lining of concrete containment, sumps and trenches
Solids Content	By Volume 99% +/- 1%
Theoretical Coverage Rate	<p>1588 ft²/gal at 1.0 mils (39.0 m²/l at 25 microns)</p> <p>79 ft²/gal at 20.0 mils (1.9 m²/l at 500 microns)</p> <p>40 ft²/gal at 40.0 mils (1.0 m²/l at 1000 microns)</p> <p>Allow for loss in mixing and application.</p>
VOC Values	<p>As Supplied : 0.06 lbs.gal (7 g/l)</p> <p>Calculated</p>

SUBSTRATES & SURFACE PREPARATION

General	Surface should be free of oil, grease, dirt, etc.
Steel	<p>Atmospheric Service: SSPC-SP 6 Commercial Blast is the minimum acceptable surface preparation.</p> <p>Immersion Service: SSPC-SP 10 Near-white metal blast is required. The surface profile should be 2.5 to 4 mils and angular.</p>
Concrete	Contact Carboline Technical Service

MIXING & THINNING

Mixing	Thoroughly mix to be assured that all settling has been eliminated and that a good homogeneous color exists.
Thinning	No thinning required

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MIXING & THINNING

Ratio | 1:1

Pot Life | 40 minutes @ 77°F (25°C)
Note: Higher temperatures will significantly reduce pot life.

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Plural Component Airless Spray | **Application by heated plural component spray machine is recommended.** Pump: 45:1 King (Graco) w/ ability to produce 3000 psi
High pressure filter: 60 mesh
Fluid hose: 3/8" (9.5 mm) x 100' (30.5 m) max (Note: if more than 100', Use 1/2" x 100' plus 1/2" x 50').
Airless Gun: Graco 207945, 208663, 220-954, 220-730
Tips: 0.019-0.027" (0.48-0.69)
Minimum pressure to avoid fingering: 3000 psi

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient
Minimum	35°F (2°C)	35°F (2°C)	35°F (2°C)

Temperatures below 50°F (10°C) will retard cure. Use dehumidification to maintain proper application environment if needed. Relative humidity should be less than 85%.

CURING SCHEDULE

Surface Temp.	Minimum Recoat Time	Dry to Touch	Maximum Recoat Time
77°F (25°C)	4 Hours	8 Hours	12 Hours

CLEANUP & SAFETY

Cleanup | Clean all equipment with Thinner 76

Safety | Keep away from sparks or flame. See SDS for specific safety information.

FOR PROFESSIONAL USE ONLY! WARNING! COMBUSTIBLE!

PACKAGING, HANDLING & STORAGE

Shelf Life | 12 months

Shipping Weight (Approximate) | Five Gallon Kit: Approx. 64 lbs (29 kg)
UN No. 3082

Flash Point (Setaflash) | Part A: <200°F (93°C)
Part B: 151°F (66°C)



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