

## SELECTION & SPECIFICATION DATA

<b>Generic Type</b>	A two component, high solids, modified epoxy
<b>Description</b>	<b>This is a Carboline Specialty Product</b> This product is formulated for use as a topcoat over Stratholiner 7100 primer and Stratholiner 7150 intermediate coat to form a protective lining system with excellent resistance to adipic, acetic and hydrochloric acids.  Minimum order quantities and special pricing will apply in North America. Contact your Carboline Sales Representative for more details.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Excellent resistance to acetic and hydrochloric acids</li> <li>• High solids</li> <li>• Very low water vapor transmission rate</li> </ul>
<b>Typical Uses</b>	<ul style="list-style-type: none"> <li>• Tank car lining system for acetic hydrochloric acids</li> <li>• Dry bulk hopper cars with residual process acids</li> </ul>
<b>Color</b>	Blue or per customer requirements
<b>Dry Film Thickness</b>	8 - 10 mils (203 - 254 microns) as topcoat for most areas of a tank car 13 - 16 mils (330 - 406 microns) for roof area  Designed to be applied in one or 2 coats as a topcoat.
<b>Solids Content</b>	By Volume 67% +/- 2%
<b>Theoretical Coverage Rate</b>	1075 ft <sup>2</sup> /gal at 1.0 mils (26.4 m <sup>2</sup> /l at 25 microns) 134 ft <sup>2</sup> /gal at 8.0 mils (3.3 m <sup>2</sup> /l at 200 microns) 67 ft <sup>2</sup> /gal at 16.0 mils (1.6 m <sup>2</sup> /l at 400 microns) Allow for loss in mixing and application.
<b>VOC Values</b>	<b>As Supplied</b> : Per EPA Method 24: 2.3 lbs/gal (275 g/l) max  These are nominal values and may vary slightly with color.

## SUBSTRATES & SURFACE PREPARATION

<b>Steel</b>	Blasted and primed with Stratholiner 7100 and then Stratholiner 7150
<b>Aluminum</b>	Remove all surface contaminants and treat with Strathmore's Wash Primer or equivalent. Primed with Stratholiner 7100 and then Stratholiner 7150.

# Stratholiner<sup>®</sup> 7200

## PRODUCT DATA SHEET



### PERFORMANCE DATA

All test data was generated under laboratory conditions. Field testing results may vary.

Test Method	Results
Abrasion Resistance (ASTM D4060) CS17 wheel, 1kg load, 1000 cycles	50 mg loss
Adhesion (ASTM D4541)	1800 psi
Hardness (ASTM D3363)	4H
Heat Resistance (ASTM 2485)	Dry, 225°F (107°C)
Salt Spray (ASTM B117)	2000+ hours

**Thermal Shock Resistance:** 10 cycles water 33°F to 200°F (0°C to 93°C)

**Chemical Resistance:** Process acids in plastic pellets and granules

### MIXING & THINNING

<b>Mixing</b>	For hand mixing of touch up or repair kits, if necessary Agitate thoroughly each component before combining Agitate thoroughly again after combining
<b>Thinning</b>	0-5% by volume maximum Consult Carboline for recommendations
<b>Ratio</b>	1:1 by volume (A:B)
<b>Pot Life</b>	4 hours @ 77°F (25°C) Caution: Pot life is significantly reduced with heat

### 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.

<b>Plural Component</b>	<b>Heated plural component equipment. Do not exceed 120°F (49°C)</b> Tip Size: 0.019 to 0.025" (0.48-0.64 mm) Pump Pressure: 2800 psi (19.3 MPa) minimum
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### APPLICATION CONDITIONS

Condition	Material
Minimum	60°F (16°C)

Metal temperature must be a minimum of 5°F (3°C) above the dew point during the surface preparation and coating application.

## CURING SCHEDULE

Surface Temp.	Dry Hard	Set Time	Tack Free
77°F (25°C)	12 Hours	2 Hours	8 Hours

**Recoat:** Mandatory 2 hour ambient air flash time, then overnight cure of forced air @ 90-100°F (32-38°C) for 12 hours minimum.

**In Service Times:**

- After force cure of 150°F (66°C) for 6 hours, or
- Two weeks air dry @ 77°F (25°C)

<b>Force Cure</b>	After coating application, allow to air dry with circulated 90-100°F (32-38°C) heat for 12 hours minimum. Perform electrical holiday test for discontinuities. All tests and touch-ups must be made before a force cure. The ramp-up rate for the force cure shall be a rise of 30°F metal temperatures every 30 minutes. The soak temperature shall be 200°F (93°C) metal temperature for 2 hours or 150°F (66°C) metal temperature for 6 hours.
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## CLEANUP & SAFETY

<b>Cleanup</b>	MEK may be used for clean up. Batch mixed material will set up in the lines and equipment if left overnight. With plural component equipment, be sure to flush from the mixing head through the delivery hose and guns.
<b>Safety</b>	Handle with care. Before and during use, observe all safety labels on packaging and paint containers and follow all caution statements on this product data sheet. Consult the Safety Data Sheet (SDS) for this product and follow all local or national safety regulations. Employ normal workmanlike safety precautions.
<b>Ventilation</b>	When used in enclosed areas, thorough air circulation must be used during and after applications until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion levels to ensure all personnel are below guidelines. If not sure or if not able to monitor levels, use MSHA/NIOSH approved respirator.

## PACKAGING, HANDLING & STORAGE

<b>Packaging</b>	5 gallon pails 55 gallon drums
<b>Shelf Life</b>	One year from date of manufacturing when kept at recommended storage conditions at 70°F (21°C) and in original unopened containers.  Do not use material beyond shelf life.
<b>Storage Temperature &amp; Humidity</b>	Do not store at temperatures above 100°F (38°C).
<b>Storage</b>	Containers must be closed tightly. Do not store outside. Rotate stock.
<b>Flash Point (Setaflash)</b>	Part A: 107°F (42°C) Part B: 71°F (22°)

### WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. Carboline warrants our products to be free of manufacturing defects in accord with applicable Carboline quality control procedures. THIS WARRANTY IS NOT VALID WHEN THE PRODUCT IS NOT: (1) APPLIED IN ACCORDANCE WITH CARBOLINE'S SPECIFICATIONS, AND/OR (2) PROPERLY STORED, CURED, AND USED UNDER NORMAL OPERATING CONDITIONS. Carboline assumes no responsibility for coverage, performance, injuries, or damages resulting from use of the product. If this product is found not to perform as specified upon inspection by a Carboline representative during the warranty period, Carboline's sole obligation, if any, is to replace the Carboline product(s) proven to be defective or refund the purchase price thereof, at Carboline's sole option. Carboline shall not be liable for any other losses or damages. This warranty excludes (1) labor and costs of labor for the application or removal of any product, and (2) any incidental or consequential damages, whether based on breach of express or implied warranty, negligence, strict liability or any other legal theory. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated. The whole text of this Product Data Sheet, as well as the documents derived from it, have been written in English, and for legal purposes the English version shall prevail.