

## SELECTION & SPECIFICATION DATA

<b>Generic Type</b>	Fluorourethane
<b>Description</b>	Premium, ultra-durable, ambient-cured, clear satin finish. It is a VOC-compliant coating that provides unparalleled weathering resistance. It is primarily used over metallic base coats and accent colors to maintain appearance during its service life. This product offers a level of durability for field application previously not available in the construction industry.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Ambient temperature cure; no heat cure required</li> <li>• Exceptional weatherability</li> <li>• Excellent flow characteristics allow for application by spray or roller</li> <li>• Excellent graffiti resistance</li> <li>• VOC compliant to current AIM regulations</li> </ul>
<b>Color</b>	Clear
<b>Finish</b>	Satin
<b>Primer</b>	Refer to Substrates & Surface Preparation
<b>Dry Film Thickness</b>	2 mils (51 microns) per coat
<b>Solids Content</b>	By Volume 34% +/- 2%
<b>Theoretical Coverage Rate</b>	545 ft <sup>2</sup> /gal at 1.0 mils (13.4 m <sup>2</sup> /l at 25 microns) 273 ft <sup>2</sup> /gal at 2.0 mils (6.7 m <sup>2</sup> /l at 50 microns) Allow for loss in mixing and application.
<b>VOC Value(s)</b>	Per EPA Method 24: 3.24 lbs/gal (388 g/l) As Supplied: 2.08 lbs./gal (249 g/l) Thinner 214 (6.0%): 3.55 lbs/gal (425 g/l) Thinner 234 (6.0%): 3.58 lbs/gal (429 g/l) Thinner 25 (5.5%): 3.57 lbs/gal (428 g/l)  This product contains US EPA VOC-exempt solvent(s).
<b>Dry Temp. Resistance</b>	Continuous: 200°F (93°C) Non-Continuous: 250°F (121°C)  Slight discoloration and loss of gloss is observed above 200 °F (93 °C)

## SUBSTRATES & SURFACE PREPARATION

<b>General</b>	Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.
<b>Steel</b>	Prime with specific Carboline primers as recommended by your Carboline Sales Representative.
<b>Galvanized Steel</b>	Prime with specific Carboline primers as recommended by your Carboline Sales Representative.
<b>Aluminum</b>	Prime with specific Carboline primers as recommended by your Carboline Sales Representative.
<b>Aged PVDF Finishes</b>	SSPC-SP1 (A test patch adhesion check is recommended.)

# Carboxane<sup>®</sup> 950 Clear Satin

## PRODUCT DATA SHEET



### SUBSTRATES & SURFACE PREPARATION

**Other Aged Finishes** | Must attain a minimum 3B rating in accordance with ASTM D3359 "X-Scribe" adhesion test. Prime with specific Carboline primers as recommended by your Carboline Sales Representative.

### MIXING & THINNING

<b>Mixing</b>	Power mix Part A, then combine and power mix to a uniform consistency. DO NOT MIX PARTIAL KITS.
<b>Thinning</b>	Spray: Up to 7 oz/gal (5.5%) w/ Thinner 25 Spray: Up to 8 oz/gal (6%) w/ Thinner 214 for hot, windy conditions. Roller: Up to 8 oz/gal (6%) w/ Thinner 234. Shake Thinner 234 well before using. Do not exceed 6% by volume.  Use of thinners other than those supplied by Carboline may adversely affect product performance and void product warranty, whether expressed or implied.
<b>Ratio</b>	3.2 Gal. Kit: (3 gal. Part A: 0.2 gal. Part B) 1 Gal Kit: (0.94 gal. Part A: 0.06 Part B)
<b>Pot Life</b>	4 Hours at 75 °F (24 °C) and less at higher temperatures. Pot life ends when coating becomes too viscous to use. THIS PRODUCT IS MOISTURE SENSITIVE. AVOID MOISTURE CONTAMINATION.

### 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>Spray Application (General)</b>	The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.
<b>Conventional Spray</b>	Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, 0.070" I.D. fluid tip and appropriate air cap.
<b>Airless Spray</b>	Pump Ratio: 30:1 (min.)* GPM Output: 3.0 (min.) Material Hose: 3/8" I.D. (min.) Tip Size: 0.013-0.017" Output PSI: 2000-2300 Filter Size: 60 mesh  *PTFE packings are recommended and available from the pump manufacturer.
<b>Brush</b>	Recommended for touch-up only. Use a medium bristle brush.
<b>Roller</b>	Use a short (mohair) or high quality medium (3/8") nap roller. A minimum of two coats may be required to attain desired appearance and recommended dry film thickness.

## APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	40°F (4°C)	40°F (4°C)	0%
Maximum	100°F (38°C)	120°F (49°C)	95°F (35°C)	80%

Industry standards are for substrate temperatures to be above 5 °F (3 °C) the dew point. Special application techniques may be required above or below normal application conditions.

**Caution:** Product is moisture sensitive. Application and/or curing in humidity above maximum, or exposure to moisture from rain or dew may result in a loss of gloss and/or microbubbling of the product.

## CURING SCHEDULE

Surface Temp.	Dry to Handle	Dry to Recoat	Final Cure	Final Cure General
50°F (10°C)	6 Hours	6 Hours	24 Hours	NR
75°F (24°C)	3 Hours	3 Hours	20 Hours	NR
90°F (32°C)	2 Hours	2 Hours	NR	16 Hours

These times are based on a 2.0-3.0 mil (50-75 micron) dry film thickness for 950. Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times and could result in solvent entrapment and premature failure.

## CLEANUP & SAFETY

<b>Cleanup</b>	Use Thinner 2 or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
<b>Safety</b>	Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions. Use adequate ventilation. Keep container closed when not in use.
<b>Ventilation</b>	When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. In addition to ensuring proper ventilation, appropriate respirators must be used by all application personnel.
<b>Caution</b>	This product contains flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workers should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

## PACKAGING, HANDLING & STORAGE

<b>Shelf Life</b>	Part A: Min. 24 months at 75 °F (24 °C) Part B: Min. 24 months at 75 °F (24 °C)  Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.
<b>Storage Temperature &amp; Humidity</b>	40–110 °F (4-43 °C) 0-80% Relative Humidity
<b>Storage</b>	Store Indoors
<b>Shipping Weight (Approximate)</b>	1 Gallon Kit - 12 lbs (6 kg) 3.2 Gallon Kit - 35 lbs (17 kg)

# Carboxane<sup>®</sup> 950 Clear Satin

## PRODUCT DATA SHEET

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## PACKAGING, HANDLING & STORAGE

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**Flash Point (Setaflash)** | Part A: 87 °F (31 °C)  
Part B (Urethane Converter 811): 127 °F (53 °C)

## 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 Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance, injuries or damages resulting from use. Carbolines sole obligation, if any, is to replace or refund the purchase price of the Carboline product(s) proven to be defective, at Carbolines option. Carboline shall not be liable for any loss or damage. 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.