

Selection & Specification Data

Generic Type	Modified Siloxane Hybrid						
Description	Carboxane 2000 Satin is a premium, ultra-durable coating that provides outstanding gloss and color retention for exterior exposures. Carboxane 2000 Satin combines the chemical resistant properties of epoxies with the weathering characteristics of top-end, acrylic-polyurethanes that can replace three-coat systems with two-coats, by eliminating the intermediate coat of epoxy. This tightly cross-linked film results in a finish with outstanding barrier properties and weathering performance that far exceeds polyurethanes. The satin gloss maintains its appearance and is chalk-free for the duration of its expected service life.						
Features	<ul style="list-style-type: none"> • Exceptional weatherability • Long life performance • Outstanding gloss/color retention • High build • VOC compliant • Excellent abrasion resistance • Isocyanate free • Flexible Film • Class A Flame Spread (ASTM E84) 						
Color	Refer to Carboline Color Guide						
Finish	Satin <small>(initial gloss is a low semi-gloss that levels out into a satin finish after a few weeks)</small>						
Primers	Compatible with inorganic and organic zinc rich primers, epoxies and others as recommended by Carboline Technical Service						
Dry Film Thickness	3.0 - 7.0 mils (76 - 178 microns) per coat <small>As the finish of a two coat system (over a primer) a minimum of 5 mils (125 microns) is recommended. As the finish of a three coat system (primer and intermediate coat), a minimum of 3 mils (75 microns) is recommended. See Severe Exposures below.</small>						
Solids Content	By Volume 71% +/- 2%						
Theoretical Coverage Rate	1139 ft ² at 1 mil (28 m ² /l at 25 microns) 380 ft ² at 3 mils (9 m ² /l at 75 microns) 163 ft ² at 7 mils (4 m ² /l at 175 microns) Allow for loss in mixing and application.						
Severe Exposures	For severe marine environments (offshore structures) where a zinc-rich primer is used, a three coat system is recommended. For other severe exposures, a two coat system may be used provided a minimum film thickness of 5 mils (125 microns) of this product is achieved.						
VOC Values	<table border="0"> <tr> <td>Thinner 10</td> <td>13 oz/gal: 2.55 lbs/gal (305 g/l)</td> </tr> <tr> <td>Thinner 214</td> <td>13 oz/gal: 2.51 lbs/gal (300 g/l)</td> </tr> <tr> <td>As Supplied</td> <td>2.07 lbs/gal (248 g/l) mixed</td> </tr> </table> <small>These are nominal values and may vary with color</small>	Thinner 10	13 oz/gal: 2.55 lbs/gal (305 g/l)	Thinner 214	13 oz/gal: 2.51 lbs/gal (300 g/l)	As Supplied	2.07 lbs/gal (248 g/l) mixed
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Substrates & Surface Preparation

General	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. Refer to specific primer's Product Data Sheet for detailed requirements of the specified primer.
Steel	SSPC-SP6 with a 1.5-2.5 mil (37.5-62.5 micron) surface profile for maximum protection. SSPC-SP2 or SP3 as minimum requirement. Prime with recommended primer.
Galvanized Steel	SSPC-SP1 and prime with specific Carboline primers as recommended by your Carboline sales representative.

Mixing & Thinning

Mixing	Power mix Part A separately. Part B requires no mixing. Then combine power mix. DO NOT MIX PARTIAL KITS.
Thinning	Not normally required. May be thinned up to 10% (13 oz/gal) with Thinner #10 or #214 for spray and #238 for brush and roll.
Ratio	1:1 by volume: Part A to Part B
Pot Life	8 hours at 75°F (23°C) and less at higher temperatures. Material is moisture sensitive. If left uncovered for extended periods or under very high humidity conditions, check for and remove any skinning that may occur.

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.

Spray Application (General)	This is a high solids coating and may require adjustments in spray techniques. Wet film thickness is easily and quickly achieved. The following spray equipment has been found suitable and is available from manufacturers.
Airless Spray	Pump Ratio: 30:1 (min.) Volume Output: 2.5 gpm min. (11.5 l/min min.) Material Hose: ½" I.D. min. (12.5mm min.) Tip Size: 0.017-0.021" (0.43-0.53mm) Output Pressure: 1500-2000 psi 105-140kg/cm ²
Brush & Roller (General)	Multiple coats may be required to obtain desired appearance, recommended dry film thickness and adequate hiding. Avoid excessive re-brushing or re-rolling.
Brush	Use a medium natural bristle brush.
Roller	Use a short to medium-nap mohair roller cover with solvent resistant core.

Carboxane[®] 2000 Satin

Application Conditions

Condition	Material	Surface	Ambient	Humidity
Minimum	50 °F (10 °C)	35 °F (2 °C)	35 °F (2 °C)	20%
Maximum	90 °F (32 °C)	110 °F (43 °C)	110 °F (43 °C)	90%

Industry standards are for substrate temperatures to be 5°F (3°C) above the dew point. Protect from high humidity, dew and direct moisture contact until fully cured. Application and/or curing in humidities above maximum, or exposure to moisture from rain or dew may result in a loss of gloss and/or staining of the product.

Curing Schedule

Surface Temp. & 50% Relative Humidity	Dry to Recoat	Dry to Touch	Hard Cure
35 °F (2 °C)	24 Hours	8 Hours	30 Hours
60 °F (16 °C)	12 Hours	2 Hours	24 Hours
75 °F (24 °C)	6 Hours	2 Hours	18 Hours

These times are based on recommended thicknesses. Curing under low humidity conditions will extend the "Cure Hard" times. Hard Cure: described as fingernail hard.

Cleanup & Safety

- Cleanup** Use Thinner #2 or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
- Safety** Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.
- Ventilation** 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. User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor levels, use MSHA/NIOSH approved supplied air respirator.

Packaging, Handling & Storage

- Shelf Life** Part A: 24 months at 76°F (24°C)
Part B: 24 months at 76°F (24°C)
*Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.
- Shipping Weight (Approximate)** 2 Gallon Kit - 27 lbs (12 kg)
10 Gallon Kit - 135 lbs (61 kg)
- Storage Temperature & Humidity** 40 -110°F (4°C-43°C)
0-90% Relative Humidity
- Flash Point (Setaflash)** Part A: 104°F (40°C)
Part B: 81°F (27°C)
- Storage** Store Indoors. KEEP DRY.



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