

SELECTION & SPECIFICATION DATA

Generic Type	Modified Siloxane Hybrid
Description	Carboxane 2000 Satin is a premium, ultra-durable coating that provides outstanding color and gloss retention as well as excellent corrosion protection for exterior exposures. When used over a suitable primer (as a two coat system) Carboxane 2000 Satin provides the barrier, corrosion resistance properties, and weatherability normally achieved with a three-coat system (primer, epoxy intermediate with an acrylic-polyurethane finish) for most environments. This significantly speeds up the painting process, saves labor, and saves money without sacrificing performance.
Features	<ul style="list-style-type: none"> • Isocyanate free • Exceptional weatherability • Outstanding color and gloss retention • Exceeds SSPC Coating Specification No. 36 Level 3A • Excellent corrosion protection • Meets ISO 12944 C3 High and C4 Medium, one coat at 5 to 7 mils DFT • High build, 3 to 7 mils DFT • Saves significant time, labor, and money • Long service life • VOC compliant • Excellent durability • Good flexibility and abrasion resistance • Class A Flame Spread (ASTM E84) • Long pot life
Color	Refer to Carboline Color Guide
Finish	Satin (initial gloss is a low semi-gloss that levels out into a satin finish after a few weeks)
Primer	Compatible with inorganic and organic zinc rich primers, epoxies and others as recommended by Carboline Technical Service
Dry Film Thickness	3 - 7 mils (76 - 178 microns) per coat 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.
Solids Content	By Volume 71% +/- 2%
Theoretical Coverage Rate	1139 ft ² /gal at 1.0 mils (27.9 m ² /l at 25 microns) 380 ft ² /gal at 3.0 mils (9.3 m ² /l at 75 microns) 163 ft ² /gal at 7.0 mils (4.0 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	Thinner 214 : 13 oz/gal: 2.51 lbs/gal (300 g/l) Thinner 10 : 13 oz/gal: 2.55 lbs/gal (305 g/l) As Supplied : 2.07 lbs/gal (248 g/l) mixed These are nominal values and may vary with color

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Dry Temp. Resistance	Continuous: 302°F (150°C)
	Non-Continuous: 338°F (170°C)
	Some discoloration and loss of gloss may be experienced at elevated temperatures.

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.

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.	Dry to Recoat	Dry to Touch	Hard Cure
35°F (2°C)	24 Hours	8 Hours	30 Hours
60°F (16°C)	12 Hours	2.5 Hours	24 Hours
75°F (24°C)	6 Hours	2 Hours	18 Hours

These times are based on recommended coverage rates. Curing under low humidity conditions will extend times. Maximum recoat for this product is 30 days. After this period, it is best to degloss the surface by abrasive blasting or sanding prior to recoating.

Note: Like many coatings, this coating will develop full adhesion over the initial weeks following application.

*Hard Cure = 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 SDS 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.
Storage Temperature & Humidity	40 -110°F (4°C-43°C) 0-90% Relative Humidity
Storage	Store Indoors. KEEP DRY.
Shipping Weight (Approximate)	2 Gallon Kit - 27 lbs (12 kg) 10 Gallon Kit - 135 lbs (61 kg)
Flash Point (Setaflash)	Part A: 104°F (40°C) Part B: 81°F (27°C)

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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.