

SELECTION & SPECIFICATION DATA

Generic Type	Two-component siloxane modified multipolymer
Description	Carboxane 2000 Topcoat is an advanced isocyanate free topcoat with outstanding gloss and color retention for exterior exposures. Provides a high gloss surface and can be used where polyurethane coatings is not desired.
Features	<ul style="list-style-type: none"> • Exceptional weatherability • Long service life • Isocyanate free • Excellent abrasion resistance • Excellent for use in chemical industry, offshore, ships, bridges, hydropower and other heavy industry
Color	Available in most RAL colors. Certain colors may require multiple coats to hide.
Finish	High Gloss
Primer	Compatible with inorganic and organic zinc rich primers, epoxies and others as recommended by Carboline Technical Service
Dry Film Thickness	3 - 6 mils (76 - 152 microns) per coat Normally specified at 75 microns (3 mils).
Solids Content	By Volume 80% +/- 2%
Theoretical Coverage Rate	1283 ft ² /gal at 1.0 mils (31.5 m ² /l at 25 microns) 428 ft ² /gal at 3.0 mils (10.5 m ² /l at 75 microns) 214 ft ² /gal at 6.0 mils (5.2 m ² /l at 150 microns) Allow for loss in mixing and application.
VOC Values	110 g/L
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.
Limitations	Not recommended for immersion service
Topcoats	Normally none, but can be overcoated with most polyurethanes and epoxies, or others as recommended.
Density	1.18 g/cm ³ depending on color

SUBSTRATES & SURFACE PREPARATION

General	Surface 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, in accordance with SSPC-SP 1 and follow the guidelines below.
Previously Painted Surfaces	Clean and lightly sand or abrade to roughen and degloss the surface. Existing coating must attain a minimum 3A rating in accordance with ASTM D3359 adhesion test.

Carboxane[®] 2000 Topcoat

PRODUCT DATA SHEET



SUBSTRATES & SURFACE PREPARATION

Primed Surfaces | Apply over clean, dry primers or intermediate coats as recommended by Carboline.

MIXING & THINNING

Mixing | Power mix part A and part B separately, then combine and power mix. DO NOT MIX PARTIAL KITS.

Thinning | May be thinned up to 15% with Carboline Thinner 10. Use of thinners other than those supplied or recommended by Carboline may adversely affect product performance and void product warranty, whether expressed or implied.

Ratio | 2:1 (Part A to B) by volume.

Pot Life | 4 hours at 23°C (75°F) 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.

Airless Spray | Tip Size: 0.013-0.019"
Output Pressure: 2000 psi

Brush & Roller (General) | Can be used on smaller areas and touch-up.

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	41°F (5°C)	36°F (2°C)	36°F (2°C)	20%
Maximum	86°F (30°C)	122°F (50°C)	122°F (50°C)	85%

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

CURING SCHEDULE

Surface Temp.	Dry to Touch	Dry to Recoat	Final Cure
36°F (2°C)	6 Hours	14 Hours	15 Days
50°F (10°C)	4 Hours	10 Hours	10 Days
59°F (15°C)	2.5 Hours	6 Hours	8 Days
77°F (25°C)	1.5 Hours	3 Hours	5 Days

These times are based on 75 microns (3 mils) DFT. Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times and could result in solvent entrapment and premature failure

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.
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 able to monitor levels, use MSHA/NIOSH approved respirator.
Caution	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 applicable regulations. In areas where explosion hazards exist, workmen should be required to use nonferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

Packaging	Part A: 13.3 litres (3.5 gallons) Part B: 6.7 litres (1.8 gallons)
Shelf Life	Part A: minimum 24 months @ 24°C (76°F) Part B: minimum 24 months @ 24°C (76°F) Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.
Storage Temperature & Humidity	5°C-45°C (41°F - 113°F) 0-95% Relative Humidity
Storage	Store Indoors.
Flash Point (Setaflash)	Part A: >60°C (140°F) Part B: 24°C (75°F)

WARRANTY

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