

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

Carboxane[®] 2000 Topcoat

PRODUCT DATA SHEET



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.

CLEANUP & SAFETY

| | |
|--------------------|---|
| 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

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.