

Selection & Specification Data

Generic Type

Modified Siloxane Hybrid

Description

Carboxane 2000 is a premium, ultra-durable coating that provides outstanding gloss and color retention for exterior exposures. When used over a suitable primer (as a two coat system) Carboxane 2000 provides the barrier properties normally seen using a threecoat system (primer, epoxy intermediate with an acrylic-polyurethane finish) for most environments. This tightly cross-linked film utilizes a UV-resistant siloxane binder resulting in a finish with outstanding barrier properties and weathering performance that far

exceeds polyurethanes.

Features

- · Exceptional weatherability
- · Long life performance
- Outstanding gloss/color retention
- · VOC compliant
- · Excellent abrasion resistance

Refer to Carboline Color Guide

- · Isocyanate free
- Flexible Film

Finish Gloss

Primer

Color

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

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 By Volume 75% +/- 2%

Solids Content Surface Burning Characteristics

Flame Spread Index: 0 Smoke Developed Index: 10

Theoretical Coverage Rate

1203 ft² at 1 mil (30 m²/l at 25 microns) 401 ft² at 3 mils (10 m²/l at 75 microns) 172 ft² at 7 mils (4 m²/l at 175 microns)

Allow for loss in mixing and application.

Severe Exposures For severe marine environments (offshore structures) a three coat system is recommended. For other severe exposures, a two coat system may be used provided the minimum film thickness of 5 mils (125

microns) is achieved.

VOC Values Thinner 10 13 oz/gal: 2.29 lbs/gal (275 g/l)

As Supplied 1.8 lbs/gal (216 g/l) mixed

These are nominal values and may vary with color

Dry Temp. Resistance

200 °F (93 °C) Continuous: Non-Continuous: 250 °F (121 °C)

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.

Performance Data

Test Method	System	Results
Adhesion: ASTM D4541	859/2000	1362 psi
EMMAQUA Weathering	2000	Exposure 12 mos. Gloss Retention 90% Exposure 24 mos. Gloss Retention 73% Exposure 32 mos. Gloss Retention 61%
Flexibility: Conical Mandrel	2000	>3/8 inch
Pencil Hardness	2000	F
QUV-A Weathering	2000	Exposure 4000 hours Gloss Retention 99% Exposure 8000 hours 80% gloss retention Exposure 12000 hours Gloss Retention 53%
South Florida Weathering	2000	Exposure 4 years Gloss Retention 90% dE: 0.45 color change
Wet Adhesion: "X- Cut", Knife Adhesion	859/2000	No failure after 7 days

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 for spray, and Thinner 214,

215, or 238 for brush and roll.

Ratio Part A: 2.2:1

Part B: by volume.

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.

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Application Equipment Guidelines

Listed below are general equipment quidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results

(General)

Spray Application 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: 1/2" I.D. min. (12.5mm min.) Tip Size: 0.017-0.021" (0.43-0.53mm) Output Pressure: 1500-2000 psi (105-140kg/cm²)

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. & 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	3 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. *Fingernail hard

Cleanup & Safety

Use Thinner #2 or Acetone. In case of spillage, absorb Cleanup

and dispose of in accordance with local applicable

regulations.

Read and follow all caution statements on this product Safety

data sheet and on the MSDS 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 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 1 Gallon Kit - 13 lbs (6 kg) (Approximate) 5 Gallon Kit - 67 lbs (30 kg)

Storage 40 -110°F (4°C-43°C) Temperature & 0-90% Relative Humidity Humidity

Part A: 96°F (36°C) Flash Point Part B: 75°F (24°C) (Setaflash)

Storage

Thinner 10: 83°F (28°C) Thinner 214: 102°F (38°C) Thinner 215: 128°F (53°C) Thinner 238: 102°F (38°C) Thinner 2: 23°F (-5°C) Store Indoors. KEEP DRY.

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