

Selection & Specification Data

Generic Type	Silicone Alkyd
Description	High solids, high gloss, finish with 30% silicone modification that provides excellent weathering performance as an exterior enamel. Can also be used interior as a high gloss maintenance product with ease of use characteristics
Features	<ul style="list-style-type: none"> ▪ Versatile multi-purpose coating ▪ 30% silicone content ▪ Tough, high gloss finish ▪ Excellent application properties ▪ VOC-compliant for most areas ▪ Excellent brush/roll/spray properties ▪ Outstanding flow and leveling
Colors	Refer to Carboline Color Guide
Finish	Gloss
Primers	Refer to <i>Substrates & Surface Preparation</i> .
Dry Film Thickness	2.0-3.0 mils (50-75 microns) Do not exceed 3.0 mils in a single coat
Solids Content	By Volume: 62% ± 2%
Theoretical Coverage Rate	994 mil ft ² (24.4 m ² /l at 25 microns) Allow for loss in mixing and application.
VOC Values	As supplied: 2.5 lbs/gal (300 g/l) Thinned: 7.5 oz. w/#45 2.7 lbs/gal (324 g/l) 6.5 oz. w/#221 2.8 lbs/gal (336 g/l) These are nominal values and may vary slightly with color.
Dry Temp. Resistance	Continuous: 200°F (93°C) Non-Continuous: 250°F (121°C) Discoloration and loss of gloss is observed above 200°F (93°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.
Steel	SSPC-SP6 with a 1.0-2.0 mil (25-50 micron) surface profile for maximum protection. SSPC-SP2 or SP3 as minimum requirement. Prime with specific Carboline primers as recommended by your Carboline sales representative.
Galvanized Steel	SSPC-SP1. Prime with specific Carboline primers as recommended by your Carboline sales representative.
Concrete	Concrete must be cured 28 days at 75°F (24°C) and 50% relative humidity or equivalent. Laitance, form oils, curing agents and hardeners should be removed by suitable method before coating application. Prime with appropriate sealer.
CMU	Mortar joints should be thoroughly cured for a minimum of 15 days at 75°F (24°C) and 50% relative humidity or equivalent. Prime with appropriate sealer.
Drywall & Plaster	Joint compound and plaster should be fully cured prior to coating application. Prime with appropriate sealer.
Previously Painted Surfaces	Lightly sand or abrade to roughen and degloss the surface. Existing paint must attain a minimum 3B rating in accordance with ASTM D3359 "X-Scribe" adhesion test. Prime with appropriate primer.

Carbocoat® 30 R

Application Equipment

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.

General Guidelines:

Spray Application (General) The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Conventional Spray Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, .052" I.D. fluid tip and appropriate air cap.

Airless Spray

Pump Ratio:	30:1 (min.)
GPM Output:	3.0 (min.)
Material Hose:	3/8" I.D. (min.)
Tip Size:	.013-.015"
Output PSI:	2500-3000
Filter Size:	60 mesh

Teflon packings are recommended and available from the pump manufacturer.

Brush & Roller (General) Multiple coats may be required to achieve desired appearance, hiding and recommended dry film thickness. Avoid excessive re-brushing or re-rolling.

Brush Use a natural bristle brush.

Roller Use a short-nap synthetic roller cover with phenolic core.

Mixing & Thinning

Mixing Power mix until uniform in consistency.

Thinning Normally not required but may thin as follows:

Spray:	Up to 7.5 oz/gal (6%) w/#45
Airless:	Up to 6.5 oz/gal (5%) w/#221
Brush:	Up to 7.5 oz/gal (6%) w/#45
Roller:	Up to 7.5 oz/gal (6%) w/#45

Use of thinners other than those supplied or recommended by Carboline may adversely affect product performance and void product warranty, whether expressed or implied.

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. Use adequate ventilation and wear gloves or use protective cream on face and hands if hypersensitive. Keep container closed when not in use.

Caution This product contains flammable solvents. Keep away from sparks and open flames. In confined areas, workmen must wear appropriate respiratory protection. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

Application Conditions

Condition	Material	Surface	Ambient	Humidity
Normal	50°-90°F (10°-32°C)	55°-90°F (13°-32°C)	55°-100°F (13°-38°C)	30-90%
Minimum	35°F (2°C)	35°F (2°C)	35°F (2°C)	0%
Maximum	120°F (49°C)	165°F (74°C)	120°F (49°C)	95%

This product simply requires the substrate temperature to be above the dew point. Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel and interfere with proper adhesion to the substrate. Special application techniques may be required above or below normal application conditions.

Curing Schedule

Surface Temp. & 50% Relative Humidity	Dry to Touch	Dry to Handle	Final Cure
45°F (7°C)	8 Hours	7 Days	28 Days
60°F (16°C)	4 Hours	2 Days	14 Days
75°F (24°C)	1 Hour	16 Hours	7 Days
90°F (32°C)	1 Hour	16 Hours	5 Days
105°F (41°C)	1 Hour	12 Hours	3 Days

These times are based on a 2.0-3.0 mil (50-75 micron) dry film thickness. Higher film thickness, insufficient ventilation, high humidity or cooler temperatures will require longer cure times and could result in solvent entrapment or premature failure. **Note: Dry to recoat time is 24 hours at 75°F (24°C).**

Packaging, Handling & Storage

Shipping Weight	<u>1 Gallon</u>	<u>5 Gallons</u>
30 R (Approximate)	13 lbs (6 kg)	64 lbs (29 kg)

Flash Point (Setaflash) 30 R: 103°F (39°C)

Storage (General) Store Indoors.

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

Shelf Life 24 months at 75°F (24°C)

***Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.**



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