

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
Color	Refer to Carboline Color Guide*
Finish	Gloss
Primer	Consult with your Carboline representative
Dry Film Thickness	2 - 3 mils (51 - 76 microns) per coat Do not exceed 3.0 mils in a single coat
Solids Content	By Volume 62% +/- 2%
Theoretical Coverage Rate	994 ft ² /gal at 1.0 mils (24.4 m ² /l at 25 microns) 497 ft ² /gal at 2.0 mils (12.2 m ² /l at 50 microns) 331 ft ² /gal at 3.0 mils (8.1 m ² /l at 75 microns) Allow for loss in mixing and application.
VOC Values	<p>As Supplied : 2.5 lbs/gal (300 g/l) Thinner 221 : Thinned with #221, 6.5 oz- 2.8 lbs/gal (336 g/l) Thinner 45 : Thinned with #45, 7.5 oz- 2.7 lbs/gal (324 g/l)</p> <p>These are nominal values and may vary slightly with color.</p>
Dry Temp. Resistance	<p>Continuous: 200°F (93°C) Non-Continuous: 250°F (121°C)</p> <p>Discoloration and loss of gloss is observed above 200 F (93 C)</p>
Limitations	*The alignment of aluminum flakes in aluminum-filled finishes is very dependent on application conditions and techniques. Care must be taken to keep conditions as constant as possible to reduce variations in final appearance. It is also advisable to work from a single batch of material since variations can occur from batch to batch. For more information consult Carboline Technical Service Department.

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.
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SUBSTRATES & SURFACE PREPARATION

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 or CMU	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. 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.

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.

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)	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: 0.013-0.015" Output PSI: 2500-3000 Filter Size: 60 mesh *PTFE 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.

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

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
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.	Dry to Handle	Dry to Touch	Final Cure General
45°F (7°C)	7 Days	8 Hours	28 Days
60°F (16°C)	2 Days	4 Hours	14 Days
75°F (24°C)	16 Hours	1 Hour	7 Days
90°F (32°C)	16 Hours	1 Hour	5 Days
105°F (41°C)	12 Hours	1 Hour	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).**

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. Keep container closed when not in use.
Caution	This product contains flammable solvents. Keep away from sparks and open flames. In confined areas, workers 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, workers should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

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

PACKAGING, HANDLING & STORAGE

	Store Indoors
Storage	This product is solvent based and not affected by excursions below these published storage temperatures, down to 10°F, for a duration of no more than 14 days. Always inspect the product prior to use to make sure it is smooth and homogeneous when properly mixed.

Shipping Weight (Approximate)	1 Gallon - 13 lbs (6 kg) 5 Gallons - 64 lbs (29 kg)
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Flash Point (Setaflash)	103°F (39°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.