

**Selection & Specification Data**

<b>Generic Type</b>	Modified polyester-polyurethane
<b>Description</b>	A high performance finish that provides a durable, impermeable, and easily sanitized surface. This polyester-polyurethane is fortified for film toughness, quick-dry properties, and outstanding color stability. Used to provide the best overall protection for a combination of aggressive chemicals/cleaning, abrasion and impact resistance, and color stability.
<b>Features</b>	<ul style="list-style-type: none"> <li>▪ Versatile multi-purpose coating</li> <li>▪ Tough, high gloss finish</li> <li>▪ Excellent application properties</li> <li>▪ VOC-compliant for most areas</li> <li>▪ Tough, chemical resistant film</li> <li>▪ Excellent color stability</li> <li>▪ Suitable for use in USDA inspected facilities</li> </ul>
<b>Colors</b>	Refer to Carboline Color Guide
<b>Finish</b>	Gloss
<b>Primers</b>	Refer to <i>Substrates &amp; Surface Preparation</i> .
<b>Dry Film Thickness</b>	2.0-3.0 mils (50-75 microns) Do not exceed 3.0 mils in a single coat
<b>Solids Content</b>	By Volume: 62% ± 2%
<b>Theoretical Coverage Rate</b>	994 mil ft <sup>2</sup> (24.3 m <sup>2</sup> /l at 25 microns) Allow for loss in mixing and application.
<b>VOC Values</b>	As supplied: 2.55 lbs/gal (306 g/l) Thinned: 7.5 oz. w/#45 2.8 lbs/gal (336 g/l) 6 oz. w/#221 2.8 lbs/gal (336 g/l) These are nominal values and may vary slightly with color.
<b>Dry Temp. Resistance</b>	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**

<b>General</b>	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.
<b>Steel</b>	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.
<b>Galvanized Steel</b>	SSPC-SP1. Prime with specific Carboline primers as recommended by your Carboline sales representative.
<b>Concrete</b>	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. Seal with Sanitile filler/sealers.
<b>CMU</b>	Mortar joints should be thoroughly cured for a minimum of 15 days at 75°F (24°C) and 50% relative humidity or equivalent. Seal with Sanitile filler/sealers.
<b>Drywall &amp; Plaster</b>	Joint compound and plaster should be fully cured prior to coating application. Prime with Sanitile 120.
<b>Previously Painted Surfaces</b>	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 Sanitile 120 or others.

# Sanitile 855

## 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. When using fortifier, combine components and power mix together. DO NOT MIX PARTIAL KITS.

**Ratio** 8:1 Ratio (A to Fortifier)

**Thinning** Normally not required but may thin as follows:  
Spray: Up to 7.5 oz/gal (6%) w/#45  
Airless: Up to 6 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.

**Pot Life** 6 hours at 75°F (24°C). Pot life ends when material begins to gel.

## 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.

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## 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	8 Hours	7 Days
90°F (32°C)	1 Hour	8 Hours	5 Days
105°F (41°C)	1 Hour	6 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 855 (Approximate)** 1.125 Gallon Kit 14 lbs (5.5 kg) 5.625 Gallon Kit 68 lbs (28 kg)

**Flash Point (Setaflash)** 855 Part A: 102°F (39°C)  
Fortifier: 98°F (36°C)

**Storage (General)** Store Indoors.

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

**Shelf Life** Part A: 24 months at 75°F (24°C)  
Part B: 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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