



### SELECTION & SPECIFICATION DATA

<b>Generic Type</b>	Fast cure polyurethane
<b>Description</b>	Formulated from high performance acrylic resins. This product is known for its excellent gloss retention properties and excellent resistance to a variety of solvents, acids and bases. Can cure in environments as low as 40°F (4°C).
<b>Features</b>	<ul style="list-style-type: none"><li>• Fast cure</li><li>• A.I.M. compliant low VOC: 2.8 to 3.5 lbs/gallon</li><li>• Can be accelerated for use with plural component spray equipment</li><li>• High impact resistance</li><li>• Formulations for rollable applications are available</li><li>• Formulations for Direct to Metal primer/finish are available</li><li>• Excellent long term gloss retention</li><li>• Excellent chemical resistance</li><li>• Cures at temperatures as low as 40°F (4°C)</li></ul>
<b>Color</b>	Black (C900) Other colors available upon request
<b>Finish</b>	High Gloss
<b>Dry Film Thickness</b>	3 - 5 mils (76 - 127 microns) single coat
<b>Typical Uses</b>	Used for both product finishing and heavy-duty maintenance. This product is a high performance product to be used where gloss retention, and/or low temperature cure are needed. Gives excellent abrasion resistance. <b>Note:</b> For specific chemical resistance information contact your Carboline representative
<b>Solids Content</b>	By Volume 60% +/- 3%
<b>Theoretical Coverage Rate</b>	962 ft <sup>2</sup> /gal at 1.0 mils (23.6 m <sup>2</sup> /l at 25 microns) 321 ft <sup>2</sup> /gal at 3.0 mils (7.9 m <sup>2</sup> /l at 75 microns) 192 ft <sup>2</sup> /gal at 5.0 mils (4.7 m <sup>2</sup> /l at 125 microns) Allow for loss in mixing and application.
<b>VOC Values</b>	<b>As Supplied</b> : 2.8-3.5 lbs/gal (336-419 g/l) max These are nominal values and may vary slightly with color. Product contains VOC-exempt t-butyl acetate. Check local regulations regarding product usage.

### SUBSTRATES & SURFACE PREPARATION

<b>General</b>	Surfaces should be free of dust, dirt, oils, moisture and other contaminants. SU Series can be applied over properly prepared Steel, Cast Iron, Galvanized, Aluminum, Epoxy Zinc and Concrete.
----------------	--



## PERFORMANCE DATA

Test Method	System	Results
Impact Resistance (ASTM G14)		100 inch-lb direct and 100 inch-lb reverse
Pencil Hardness (ASTM D3363)		HB
Salt Fog Resistance (ASTM B117)	American EM Epoxy Primer w/ American SU Series Urethantopcoat	Passes 500 hours with no blistering or rusting. No undercutting from the scribe
Solvent Resistance (ASTM D5402)		300+ after 7 days cure
Solvent Wipe vs Time (ASTM D5402)		24 hours - Gloss Loss 48 hours - Minimal effect 72 hours - No effect
Tape Adhesion (ASTM D3359)		5A, 5B
Weight per Gallon (ASTM D1200)		Varies by specific color

## MIXING & THINNING

**Mixing** | Mix part B catalyst into part A using mechanical agitation.

**Thinning** | Thin with Thinner 214 or 229

**Ratio** | Catalytic 4: 1

**Pot Life** | Mixed: 4-6 hours at 77°F (25°C)

## 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.

**General** | Conventional or Airless spray preferred. If it is necessary to apply by roller, consult your Carboline Representative.

**Conventional Spray**

- Spray Pot Dual Regulation
- Air Gauges for Pot Pressure and Atomization Air
- Air Supply (in): 100 psi
- Material Hose Diameter (ID): 1/2" (1.3 cm)
- Material Hose Length: 50' (15 m)
- Air Hose (ID): 5/16" (7.9 mm)
- Fluid Pressure: 50-75 psi
- Atomization Pressure: 45-60 psi
- Fluid Tip Orifice Size: 0.046-0.070" (1.2-1.8 mm)

**Airless Spray**

- Pump Ratio: 30:1
- Air Supply (in): 100 psi
- Hose Diameter (ID): 1/4" (0.64 cm)
- Hose Length: 100' (30.5 m)
- Tip Size: 0.013-0.019" (0.33-0.48 mm)
- Atomization Pressure: 2,400 psi

## APPLICATION CONDITIONS

Condition	Ambient	Humidity
Maximum	180°F (82°C)	85%

Do not apply below freezing temperatures.



### CURING SCHEDULE

Surface Temp.	Dry to Topcoat	Dry to Touch	Firm
77°F (25°C)	7 Hours	3 Hours	5 Hours

Catalyzed with HSU-Cat

### CLEANUP & SAFETY

**Cleanup** | Clean all equipment immediately with TH 760 thinner. If thinning is necessary thin with TH 317, TH 319 or TH 311 exempt thinner.

**Safety** | Keep away from sparks or flame. Contains polyisocyanate catalyst, acetate, and ketone solvents. INDIVIDUALS WITH LUNG OR BREATHING PROBLEMS OR PRIOR REACTION TO ISOCYANATES MUST BE EXPOSED TO VAPOR OR SPRAY MIST. Keep away from heat, sparks, and flame. Use only with adequate ventilation. FIRST AID: If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists or occurs later, consult a physician and have label information available. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and call a physician; for skin, wash thoroughly with soap and water. Keep container closed when not in use. In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations. NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. The contents of this package must be blended with other components before the product can be used. Any mixture of components will have hazards of both components. Before opening the packages, read all warning labels and MSDS sheets. Follow all precautions.

**FOR PROFESSIONAL USE ONLY! WARNING! FLAMMABLE!**

**Ventilation** | Do not breathe vapor or spray mist. Wear an appropriate, properly fitted respirator approved by NIOSH/MSHA while exposed. An airline respirator (TC 19C NIOSH/MSHA) may be appropriate where airborne monitoring demonstrates vapor levels below ten times the applicable exposure limits. Follow directions for respirator use. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling

### PACKAGING, HANDLING & STORAGE

**Packaging** | **5 Gallon Unit:**  
Part A: 4 gallons (15.1 L)  
Part B: 1 gallon (3.8 L)  
**250 Gallon Unit:**  
Part A: 4 - 50 gallon drums (189.3 L)  
Part B: 1 - 50 gallon drum (189.3 L)

**Shelf Life** | 1 year

**Shipping Weight (Approximate)** | **One Gallon**  
Part A: 10.75 lbs (4.9 kg)  
Part B: 1 Quart - 2 lbs (0.9 kg)  
**Five Gallons**  
Part A: 44.5 lbs (20.2 kg)  
Part B: 1 Gallon - 8.5 lbs (3.9 kg)

# American SU FC Series Urethane

## PRODUCT DATA SHEET

---



### PACKAGING, HANDLING & STORAGE

---

<b>Flash Point (Setaflash)</b>	Part A: 83°F (28°C)
	Part B: 100°F (38°C)

### 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.