

SELECTION & SPECIFICATION DATA

Generic Type	Fast cure polyurethane
Description	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).
Features	<ul style="list-style-type: none"> • Fast cure • High impact resistance • Excellent long term gloss retention • Excellent chemical resistance • Cures at temperatures as low as 40°F (4°C)
Color	Black (C900) Other colors available upon request
Finish	High Gloss
Dry Film Thickness	3 - 5 mils (76 - 127 microns) single coat
Typical Uses	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. Note: For specific chemical resistance information contact your Carboline representative
Solids Content	By Volume 54% +/- 2%
Theoretical Coverage Rate	866 ft ² /gal at 1.0 mils (21.3 m ² /l at 25 microns) 289 ft ² /gal at 3.0 mils (7.1 m ² /l at 75 microns) 173 ft ² /gal at 5.0 mils (4.3 m ² /l at 125 microns) Allow for loss in mixing and application.
VOC Value(s)	Per EPA Method 24: 3.1 lbs/gal (371 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

General	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.
----------------	--

MIXING & THINNING

Mixing	Mix part B catalyst into part A using mechanical agitation.
Thinning	Thin with Thinner 214 or 229
Ratio	4: 1 Part A to Part B by volume
Pot Life	4-6 hours at 77°F (25°C)

American SU FC Series Urethane

PRODUCT DATA SHEET



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	100°F (38°C)	85%

Must be a minimum of 5°F (3°C) above dew point during surface preparation and coating application. 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 Thinner 2 or acetone.

CLEANUP & SAFETY

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 | 24 months

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)

Flash Point (Setaflash) | Part A: 83°F (28°C)
 Part B: 100°F (38°C)

American SU FC Series Urethane

PRODUCT DATA SHEET



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.