

AMERICAN COATINGS

SU SERIES HIGH SOLIDS ACRYLIC POLYURETHANE

A high gloss, high performance, polyurethane finish coat with excellent gloss retention.

GENERAL FEATURES

- A.I.M. COMPLIANT LOW VOC – 2.8 to 3.5 #/G
- CAN BE ACCELERATED FOR USE WITH PLURAL COMPONENT SPRAY EQUIPMENT
- HIGH IMPACT RESISTANCE
- FORMULATIONS FOR ROLLABLE APPLICATION ARE AVAILABLE
- FORMULATIONS FOR DIRECT TO METAL PRIMER/FINISH ARE AVAILABLE
- EXCELLENT LONG TERM GLOSS RETENTION
- EXCELLENT CHEMICAL RESISTANCE*
- CURES AT TEMPERATURES AS LOW AS 40°F.

DESCRIPTION

American SU Series Polyurethanes are formulated from high performance acrylic resins. The SU Series products are known for their excellent gloss retention properties and excellent resistance to a variety of solvents, acids and bases. American SU Series finishes cure in environments as low as 40°F.

USES

SU Series Polyurethanes are used for both product finishing and heavy-duty maintenance. SU Series products are high performance products to be used where gloss retention, and/or low temperature cure are needed. SU Series Polyurethanes give excellent abrasion resistance.

*Note for specific chemical resistance information contact your American Coatings representative

PHYSICAL DATA

Finish ----- High Gloss
 Color ----- Various
 Applied Over ----- Properly primed steel,
 galvanized or aluminum
 Components ----- Two
 Cure ----- Catalytic 4:1
 Catalyzed with HSU-Cat
 Volume Solids----- 59 – 65 %

Recommended Dry Film

Thickness -----3.0 –5.0 mils
 Number of Coats ----- One
 Application Method -----Conventional or Airless
Thinning Required-----None
 Dry Time @ 77°F and 50% RH:
 Touch ----- 2 – 4 hours
 Through ----- 4 – 6 hours
 Topcoat - ----- 6 – 8 hours
 *Theoretical Coverage at:
 Recommended Thickness----- 322 - 193 sq.ft/gal.
Temperature Limit
 Immersed ----- N/R
 Atmospheric ----- 180°F
Miscellaneous Properties
 Shelf Life -----1 year
 Pot Life – Mixed @ 77°F-----4-6 hours

PERFORMANCE DATA

TEST	RESULTS
PENCIL HARDNESS ASTM D-3363	HB
TAPE ADHESION ASTM D-3359	5A, 5B (EM Epoxy, SU Series)
GLOSS ASTM D-523	95 gloss units @ 60°
SALT FOG RESISTANCE ASTM B-117	EM Epoxy Primer w/ SU topcoat, passes 500 hours with no blistering or rusting. No undercutting from the scribe.
WEIGHT PER GALLON ASTM D-1200	Varies by specific color SU 5000 11.0 ± 0.2 #/gal
WEIGHT SOLIDS % ASTM D-2369	Varies by specific color SU5000 78% ± 2
VOLUME SOLIDS ASTM D-2697	Varies by specific color SU5000 64% ± 2
IMPACT RESISTANCE ASTM G-14	100 inch-lb direct 100 inch-lb reverse
SOLVENT RESISTANCE ASTM D-5402	300+ after 7 days cure
SOLVENT WIPE, vs TIME ASTM D-5402 24 hours 48 hours 72 hours	Gloss loss Minimal effect No effect

SU Series

SURFACE PREPARATION

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, Inorganic Zinc and concrete.

*Coverages are theoretical and do not make provision for spray losses.

APPLICATION INFORMATION

Do not apply below freezing temperatures or humidities above 85 percent.

APPLICATION METHOD

Conventional or Airless spray preferred. If it is necessary to apply by roller, consult your American Representative.

MIXING

American SU Series products are two component products with a mixing ratio of 4 to 1. Mix part B urethane into part A using mechanical agitation.

CLEAN-UP AND THINNING

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

SPRAY EQUIPMENT

FOR AIRLESS SPRAY

Pump Ratio ----- 30:1
Air Supply (in) ----- 100 psi
Hose Diameter (ID) ----- 1/4"
Hose Length ----- 100'
Tip Size ----- .013 - .019
Atomization Pressure ----- 2,400

FOR CONVENTIONAL SPRAY

Spray Pot Dual Regulation
Air Gauges for Pot Pressure and Atomization Air
Air Supply (in) ----- 100 psi
Material Hose (ID) ----- 1/2"
Material Hose Length ----- 50'
Air Hose (ID) ----- 5/16"
Fluid Pressure (psi) ----- 50 – 75
Fluid Tip Orifice Size (in) ----- .046-.070

SPECIAL STOCK

SUD5001 White DTM (direct to metal)
SUR5002 White Roll able
SUR5321 Lt. Green Rollable

SHIPPING DATA

Proper Shipping Name ----- Paint Liquid
Hazard Class----- Part A Flammable Liquid
Part B Combustible Liquid
Flash Pt. °F SETA ----- 83°F Part A
100°F Part B
UN No.----- 1263

PACKAGING

Shipping WT. ----- SU Coating HSU Catalyst
Ones 10.75# Qt. 2#
Fives 44.5# 1 Gal. 8.5#

SAFETY INFORMATION

FOR PROFESSIONAL USE ONLY! WARNING! FLAMMABLE!

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 NOT BE EXPOSED TO VAPOR OR SPRAY MIST.

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. 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.

Follow all precautions.

STOCK COLORS

SU5000 White SU5443 Medium Yellow
SU5115 National Blue SU5444 Safety Yellow
SU5220 Signal Red SU5482 Cat Yellow
SU5222 Safety Red SU5525 Silver Gray
SU5234 Orange SU5600 Black
SU5253 Ensign Red SU5200 Clear
SU16020 RAL 2003 Pastel Orange
Many more colors are available (may require minimum order)

DISCLAIMER

The facts stated and the recommendations and suggestions herein are based upon experiments and supplier information believed to be reliable. No guarantee is made of their accuracy, however, and American Coatings ASSUMES NO LIABILITY FOR PRODUCT FAILURE OTHER THAN TO SUPPLY REPLACEMENT MATERIAL FOR PRODUCTS SHOWN TO BE DEFECTIVE WHEN DELIVERED OR TO REFUND THE PURCHASE PRICE. Except as stated, THERE ARE NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE. AMERICAN COATINGS SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL AND CONSEQUENTIAL DAMAGES. No statement contained herein shall be construed as an inducement to infringe existing patents or as an endorsement of specific manufacturers.

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