

# AMERICAN COATINGS

## PU SERIES POLYURETHANE

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

### GENERAL FEATURES

- A HIGH QUALITY FINISH FOR MODERATE AND SEVERE ENVIRONMENTS
- FORMULATIONS FOR ROLLER APPLICATION
- EXCELLENT LONG TERM GLOSS RETENTION
- EXCELLENT CHEMICAL RESISTANCE
- AVAILABLE IN FORMULATION FOR ROLLER APPLICATION

### DESCRIPTION

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

### USES

American PU Series Polurethanes are used for both product finishing and heavy-duty maintenance. PU Series products are high performance products to be used where gloss retention, and/or low temperature cure are needed.

**NOTE:** If coated equipment is cleaned periodically with acid, consult your American Coatings Representative. It may be necessary to use an acid resistant formulation

### PRODUCTS

PU 5400	White	PU 5501	Tetra Gray*
PU 5410	Black	PU 5938	Cat Yellow*
PU 5107	Safety Blue	PU 1071	ASA Gray*
PU 5731	American Red	PU 1290	Clay Tan*
PU 5930	Medium Yellow	PU 5730	Swift Red*
PU 5103	Tetra Blue*	PU 5201	Loam Brown*
PU 5104	Lehman Blue*	PU 5200	Clear
PU 5206	Brown*	PU 5401	Rollable White*
PU 5208	Dark Brown*	PU 5502	Pearl Gray*

\*Made to order 50 gallon minimum order required.  
Many other colors available.

### PHYSICAL DATA

Finish ----- High Gloss  
Color ----- Various  
Applied Over ----- Properly primed steel,  
galvanized, or aluminum  
Components ----- Two  
Cure ----- Catalytic 4:1

Volume Solids ± 2% ----- 48% average

### Recommended Dry Film

Thickness ----- 1.5 – 2.0 mils  
Number of Coats ----- One  
Application Method ----- Conventional or  
Airless preferred

Thinning Required ----- 10 – 15% TH 317

Dry Time @ 77°F and 50% RH:

Touch ----- 30 minutes  
Through ----- 2 hours  
Topcoat ----- 3 – 4 hours

\*Theoretical Coverage at:

Recommended Thickness ----- 512 – 384 sq. ft/gal

### Temperature Limit

Immersed ----- N/R  
Atmospheric ----- 180°F

### Miscellaneous Properties

Shelf Life ----- 1 year  
Pot Life – Mixed @ 77 °F ----- 8 hours

### SURFACE PREPARATION

American PU Series Polurethanes should be applied over suitable primers and surfaces should be free of dirt, dust, oil, or grease. The following primers are recommended:

Steel ----- RL, EX, EM, or AK All Purpose Primers  
Galvanized ----- WP 9521  
Old Coatings ----- AK All Purpose Primers  
Aluminum ----- WP 9521  
Inorganic Zinc ----- Any EM Series Epoxy

\* Coverage's are theoretical and do not make provision for spray losses

**PU Series**

**APPLICATION INFORMATION**

Do not apply below 40°F or humidities above 85 percent.

**APPLICATION METHOD**

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

**MIXING**

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

**CLEAN-UP AND THINNING**

Clean all equipment immediately with TH 317 urethane thinner. Thin as required with TH 317 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) ----- 10 – 25 psi  
Atomization Pressure (psi) ----- 50 – 75 psi  
Fluid Tip Orifice Size (in) ----- .046 – .070"

**SAFETY INFORMATION**

**WARNING! FLAMMABLE, HARMFUL IF INHALED, CAUSES IRRITATION**

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.**

**SAFETY INFORMATION CONT**

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) is recommended. A vapor/particulate respirator (TC 23C 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

**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**

<u>Shipping Wt.</u>	<u>PART A</u>	<u>PART B</u>
	Ones 10.75 lbs.	Quarts 2 lbs.
	Fives 44.4 lbs.	Gallons 8.5 lbs.

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.