



AP-THANE

(SU Series, American Coatings)

HIGH SOLIDS ACRYLIC POLYURETHANE

AP-THANE is 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 Lbs/gal.
- CAN BE ACCELERATED FOR USE WITH PLURAL COMPONENT SPRAY EQUIPMENT
- HIGH IMPACT RESISTANCE
- FORMULATIONS FOR ROLLABLE APPLICATION ARE AVAILABLE
- EXCELLENT LONG TERM GLOSS RETENTION
- EXCELLENT CHEMICAL RESISTANCE*
- CURES AT TEMPERATURES AS LOW AS 5°C.

DESCRIPTION

AP-THANE Polyurethanes are formulated from high performance acrylic resins. AP-THANE is known for their excellent gloss retention properties and excellent resistance to a variety of solvents, acids and bases. AP-THANE Polyurethanes cure in environments as low as 5°C.

USES

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

PHYSICAL DATA

Finish _____ High Gloss
Color _____ Various
Applied Over _____ Properly primed steel, galvanized or aluminum
Components _____ Two
Cure _____ Catalytic
Mixing Ratio (by Volume): _____ 4:1
Volume Solids _____ 59 – 65 %
Recommended Dry Film
Thickness _____ 75–125µ
Number of Coats _____ One or two
Application Method _____ Conventional or Airless

Thinning Required _____ None
Dry Time @ 25°C and 50% RH:
Touch _____ 2 – 4 hours
Through _____ 4 – 6 hours
Topcoat _____ 6 – 8 hours
¹Theoretical Coverage at:
Recommended Thickness _____ 30 – 18 m²/gal

Temperature Limit

Immersed _____ N/R
Atmospheric _____ 82°C

Miscellaneous Properties

Shelf Life _____ 1 year
Pot Life – Mixed @ 25°C _____ 4-6 hours

TESTS	RESULTS
PENCIL HARDNESS ASTM D-3363	HB
TAPE ADHESION ASTM D-3359	5A, 5B (EM Epoxy, AP-THANE)
GLOSS ASTM D-523	95 gloss units @ 60°
SALT FOG RESISTANCE ASTM B-117	EM Epoxy Primer w/ AP-THANE topcoat, passes 500 hours with no blistering or rusting. No undercutting from the scribe.
WEIGHT PER GALLON ASTM D-1200	Varies by specific color AP-THANE WHITE 5000 5.0 ± 0.1 Kg/gal
WEIGHT SOLIDS % ASTM D-2369	Varies by specific color AP-THANE WHITE 5000 78% ± 2
VOLUME SOLIDS ASTM D-2697	Varies by specific color AP-THANE WHITE 5000 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

SURFACE PREPARATION

Surfaces should be free of dust, dirt, oils, moisture and other contaminants. AP-THANE can be applied over properly prepared Steel, Galvanized, Aluminum, Inorganic Zinc and concrete.

APPLICATION INFORMATION

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

APPLICATION METHOD

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

MIXING

AP-THANE is a two component products with a mixing ratio of 4 to 1. Mix part B hardener into part A Urethane using mechanical agitation.

*Note for specific chemical resistance information contact your AVF Paints representative
¹Coverages are theoretical and do not make provision for spray losses.



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CLEAN-UP AND THINNING

Clean all equipment immediately with AP-Thinner 760 thinner. If thinning is necessary thin with AP-Thinner 314, AP-Thinner 319.

SPRAY EQUIPMENT FOR AIRLESS SPRAY

Pump Ratio _____ 30:1
Air Supply (in) _____ 100 psi
Hose Diameter (ID) _____ 1/4"
Hose Length _____ 100'
Tip Size _____ 0.013-0.019
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) _____ 0.046-0.070

SHIPPING DATA

Proper Shipping Name _____ Paint Liquid
Hazard Class _____ Part A Flammable Liquid
_____ Part B Combustible Liquid
Flash Pt. °C SETA _____ 28°C Part A
_____ 38°C Part B
UN No. _____ 1263

PACKAGING

Shipping WT. (Kg)
AP-THANE PART A AP-THANE PART B (Hardener)
Quart = 1.1 Pint = 0.23
Ones = 4.3 Quart = 0.8
Fives = 21.3 1 Gal. = 3.8

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

Color card.
Special colors upon request.

MATERIAL SAFETY

Safety Data Sheet of the product is available on request

For more information please contact;

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DISCLAIMER

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