



Product Data Sheet

Acrylic Alkyd Urethane

Product Description

An Acrylic Alkyd Urethane finish (two-component) providing very high gloss with excellent physical properties such as abrasion and chemical resistance, flexibility and weatherability.

Where to Use

Ideal use in applications such as farm and shop equipment, and heavy machinery.

Product Characteristics

Color White, and Custom Colors

Gloss High Gloss

Architectural and Industrial Maintenance Category N/A

<u>Drying Time</u>	Temperature	To Touch	Tack Free	To Recoat	To Handle	Full Cure*
	75 °F	10 min	20 min	1 hour	2 hours	4 days

Preparation & Priming

New Work For best performance on steel, the surface should be blasted to SSPC-SP6 or SSPC-SP10, including the removal of all mill scale. Prior to blasting, remove all flux and scab from welding and grind smooth all rough weld seams and sharp edges. Remove any grease, oil, or dirt with solvent (SSPC-SP1), or chemical cleaner before blasting. The surface should be coated within 24 hours after blasting. Apply over properly primed surface as detailed by applicable specifications.

Old Work Substrate must be clean, dry and thoroughly degreased in accordance with SSPC-SP1 standards. All damaged areas should be repaired and existing paint should be in good condition. This coating may be applied over most old coatings in sound condition. Check the existing paint by applying on a trial patch and observe overnight for lifting, softening, or wrinkling. If this occurs, the existing paint must be removed or a compatible barrier primer must be applied first. Glossy surfaces should be sanded or brush blasted for best performance.

Primer Coats Primer should be phenolic alkyd such as Anchor 472 Gray, 2653 Red, or 2655 White. Epoxy Primer such as Anchor 3900 may be used if heavy duty service is required.

Mixing & Application

Mixing/Mix Ratio Mix 1 part, by volume, of J1100 Urethane into eight parts of Part A Acrylic Alkyd. Hand or mechanically agitate carefully to avoid air entrapment.

Pot Life After J1100 is mixed into the urethane at 80°F, the mixture must be applied within 8 hours. Discard catalyzed material beyond this time frame. Do not add new material into old to extend pot life.

Temperature	Pot Life
80°F	8 Hours

Packaging A one gallon kit consist of a 1 gallon container of Acrylic Alkyd 88% full and a 1 Pint container of J1100 . Mixing the J1100 into the urethane container yields one mixed gallon. A five gallon kit consists of a 5 gallon container with 4.40 gallons of Acrylic Alkyd. Mixing 5 pints of J1100 yields 5 gallons of mixed material.

Surface Temperature Minimum 50°F

Recommended Thickness 1.5-2.0 mils dry (Number of coats and thickness requirements will vary with substrate, application method, and service equipment).

Theoretical Coverage 715.5 ft²/gal at 1 mil dry of mixed material assuming no application losses. Coverage will vary depending on the color, application technique, porosity, and design of the substrate.

Acrylic Alkyd Urethane

Mixing & Application Continued

<u>Coverage Rates per Coat</u>	<u>Dry Mils</u>	<u>Wet Mils</u>	<u>Ft²/gal</u>
<u>Suggested</u>	1.5	3.7	476
<u>Minimum</u>	1.0	2.5	715
<u>Maximum</u>	2.0	5.0	357
<u>Application Equipment</u>	<u>Airless Spray</u>	Pressure Tip	1200-2200 psi 0.011"-0.015" Use 3/8" hose and 60 mesh filter.
	<u>Conventional Spray</u>	Air Pressure Fluid Pressure	60-80 psi 10-20 psi Use pressure pot with dual regulators, 3/8" I.D. hose, 0.070" tip, appropriate air cap and oil/water separator
	<u>Brush</u>	High Quality Pure China Bristle.	
	<u>Roller</u>	Short nap mohair roller with Phenolic Core.	

Application Considerations This product is moisture sensitive until cured—avoid moisture contamination. For optimal performance apply when the relative humidity is less than 60%. Do not apply when the surface temperature is within 5°F of the dew point or when the relative humidity is greater than 80%. Do not apply when frost, dew, or rain is forecasted within the next 24 hours (72 hours in cooler temperatures). Apply first coat as a mist or tack coat prior to subsequent finish coats as specified by job requirements. Do not mix partial kits.

Clean-up & Storage

Cleanup Clean all tools and equipment with Anchor #T022 Xylene Solvent. For disposal of empty containers and unused product, contact your industrial refuse collection service.

Storage Temperature Minimum 20°F Maximum 110°F

Shelf Life Under Normal Conditions (Unopened) – Two Years

Safety & Important Information

WARNING! FLAMMABLE LIQUID AND VAPOR. VAPOR HARMFUL. CONTAINS Xylene.. May affect the brain or nervous system causing dizziness, headache or nausea. Causes nose, eye, skin and throat irritation. Harmful if swallowed. 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 the contents may be harmful or fatal.

Keep away from heat, sparks, and flame. Vapors may cause flash fire. Close container after each use. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. **Use only with adequate ventilation.** Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. **KEEP OUT OF REACH OF CHILDREN.**

WARNING! If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead. WARNING! Sanding or scraping pressure treated lumber may be hazardous; wear appropriate protection.

Version: 11/21/13

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Technical Information Sheet

Acrylic Alkyd Urethane

Product Description

- General Description An Acrylic Urethane finish (two component) providing very high gloss with excellent physical properties such as abrasion and chemical resistance, flexibility and weatherability.
- Common Usage This product is targeted for applications such as farm and shop equipment, and heavy machinery. Primer will be determined by service environment and job specifications. Consult your Anchor representative for specific job recommendations.
- Color White, and Custom Colors
- Finish High Gloss
- Activator Required Anchor #J1100 Activator

Technical Data

- Solids by Volume 40.16% (Mixed) – Varies by Color
- Recommended Thickness 1.1-1.7 mils dry (Number of coats and thickness will vary with substrate, application method, and service equipment).

Drying Time

Temperature	To Touch	Tack Free	To Recoat	To Handle	Full Cure*
75 °F	10 min	20 min	1 hour	2 hours	4 days

- Architectural and Industrial Maintenance Category N/A
- AIM Category VOC Limit N/A
- Actual VOC 4.33 #/gal Mixed with Activator – Varies by Color
- Density 9.93#/gal –Varies by Color
- Theoretical Coverage 715 ft²/gal at 1 mil dry, assuming no application losses. Coverage will vary depending on the color, application technique, porosity, and design of the substrate.
- Packaging A one gallon kit consist of a 1 gallon container of Acrylic Alkyd 88% full and a 1 Pint container of #J1100. Mixing the #J1100 into the urethane container yields one mixed gallon. A five gallon kit consists of a 5 gallon container with 4.4 gallons of Acrylic Alkyd and 5 pints of #J1100. Mixing the #J1100 into the urethane container yields five mixed gallons.
- Storage Temperature Minimum 20°F Maximum 110°F
- Heat Resistance 350°F Intermittent, 250°F Continuous (Dry)
- Pot Life After #J1100is mixed into the urethane at 77°F, the mixture must be applied within 8 hours..

Temperature	Pot Life
80°F	8 Hours
- Safety Information Refer to the Product Data Sheet or Material Safety Data Sheet for safety information.

Performance Data

Acrylic Alkyd Urethane

Substrate Steel

Surface Preparation SSPC-SP10

System Tested 1 coat Acrylic Alkyd Urethane on S-36 steel Q panels

Test Name	Test Method	Results
Accelerated Weathering	ASTM G53 – 1850 hours	88% Retention of Gloss - 60°
MEK Double Rubs		Pass 100
Direct impact	ASTM D2794	Pass 10 in/lb
Reverse impact	ASTM D2794	Pass 10 in/lb
Hardness (pencil)	ASTM D3363	H
Adhesion (Crosshatch)	ASTM D 3359	4B

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