



Product Data Sheet

Ancothane Acrylic Urethane - 4900 Series

Product Description

A low VOC Acrylic Aliphatic 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: bridges, storage tank exteriors, farm and shop equipment, and heavy machinery.

Product Characteristics

Color White, Clear and Custom Colors

Gloss High Gloss

Architectural and Industrial Maintenance Category Industrial Maintenance Coatings

<u>Drying Time</u>	Temperature	To Touch	Tack Free	To Recoat	To Handle	Full Cure*
	40 °F	5 hr	48 hr	48 hr	5 days	>7 days
	75 °F	90 min	6 hr	8 hr	20 hr	7 days
	100 °F	50 min	2 hr	2 hr	5 hr	4 days

*(Accelerator Available, CC0150 – 4 fl oz per gal)

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 will be determined by service environment and job specifications. Consult your Anchor representative for specific job recommendations.

Mixing & Application

Mixing/Mix Ratio Mix 1 part, by volume, of #4906 into four parts urethane. Hand or mechanically agitate being careful not to mix so fast that air is entrapped.

Pot Life After #4906 is mixed into the urethane at 80°F, the mixture must be applied within 2 hours. Adding #CC0150 Accelerator also shortens pot life.

Temperature	Pot Life
40°F	9 Hours
80°F	2 Hours
100°F	1 Hour

Packaging A one gallon kit consist of a 1 gallon container of urethane 80% full and a 1 quart container of #4906 80% full. Mixing the #4906 into the urethane container yields one mixed gallon. A five gallon kit consists of a 5 gallon container with four gallons of urethane and a full 1gallon container of #4906. Mixing the #4906 into the urethane container yields five mixed gallons.

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 917 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.

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	2.6	611
	<u>Minimum</u>	1.0	1.8	917
	<u>Maximum</u>	2.0	3.5	459
<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.		
<u>Application Considerations</u>	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

<u>Cleanup</u>	Clean all tools and equipment with Anchor #T0003M MIBK Solvent. For disposal of empty containers and unused product, contact your household refuse collection service.	
<u>Storage Temperature</u>	Minimum 20°F	Maximum 110°F
<u>Shelf Life</u>	Under Normal Conditions (Unopened) – Two Years	

Safety & Important Information

WARNING! FLAMMABLE LIQUID AND VAPOR. VAPOR HARMFUL. CONTAINS: ISOBUTYL KETONE. Vapor harmful. 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 or 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.

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LIMITED WARRANTY: The technical data on this label or on other data is true and accurate to the best of our knowledge. We guarantee our products to conform to ANCHOR PAINT MFG. CO. quality control standards. Due to misuse in handling, storage, application and workmanship or variables such as weather or surface integrity that are beyond our control, Anchor Paint does not authorize any representative to make any warranty or merchantability of fitness of this product. Any liability whatsoever of Anchor Paint Mfg. Co. to the buyer or user of this product is limited to the purchaser's cost of the product itself.



Technical Information Sheet

Ancothane Acrylic Urethane - 4900 Series

Product Description

- General Description** A low VOC Acrylic Aliphatic 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 bridges, storage tank exteriors, 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, Clear and Custom Colors
- Finish** High Gloss
- Activator Required** Anchor #4906 Activator

Technical Data

- Solids by Volume** 57.16% (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*
40 °F	5 hr	48 hr	48 hr	5 days	>7 days
75 °F	90 min	6 hr	8 hr	20 hr	7 days
100 °F	50 min	2 hr	2 hr	5 hr	4 days

*(Accelerator Available, CC0150 – 4 oz/gal)

- Architectural and Industrial Maintenance Category** Industrial Maintenance Coatings
- AIM Category VOC Limit** 3.8 lb/gal (450 g/l)
- Actual VOC** 3.0 lb/gal (348 g/l) – Mixed with Activator – Varies by Color
- Density** 9.77 lb/gal (1170 g/l) – Mixed
- Theoretical Coverage** 917 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 urethane 80% full and a 1 quart container of #4906 80% full. Mixing the #4906 into the urethane container yields one mixed gallon. A five gallon kit consists of a 5 gallon container with four gallons of urethane and a full 1gallon container of #4906. Mixing the #4906 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 #4906 is mixed into the urethane at 77°F, the mixture must be applied within 2 hours. Adding #CC0150 Accelerator also shortens pot life.
- | Temperature | Pot Life |
|-------------|----------|
| 40°F | 9 Hours |
| 80°F | 2 Hours |
| 100°F | 1 Hour |

Safety Information Refer to the Product Data Sheet or Material Safety Data Sheet for safety information.

Performance Data

Substrate Steel

Surface Preparation SSPC-SP10

System Tested 1 coat CC1738 Zinc Rich Epoxy II, 1 coat CC1514 Hi-Solids Epoxy Primer, 1 coat 4900 Ancothane Acrylic Urethane

Test Name	Test Method	Results
Accelerated Weathering	ASTM D4587 2500 HRS	95% Retention of Gloss - 60°
Abrasion Resistance	ASTM D 4060, CS17 wheel, 1000 cycles 1 kg load	59.3 mg loss
Salt Fog Resistance	ASTM B117, 5000 Hours	Blistering - None per ASTM D714 Rusting - 8 per ASTM D610
Hardness (Pencil)	ASTM D 3363	H
Adhesion (Pulloff)	ASTM D 4541	1000+ psi
Adhesion (Crosshatch)	ASTM D 3359	5B
Dry Heat Resistance		250F Continuous 300 F Intermittent Discoloration is observed above 300F

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