



PRODUCT DATA SHEET
AWL®GARD INTERIOR URETHANE TOPCOAT
W-series

Features & Uses

Awlgrip's laboratories have developed AWLGARD Interior Urethane for interior applications in engine rooms and other areas where a durable urethane is required and the application of a solvent borne coating is impractical. This two component urethane has excellent solvent resistance to denatured alcohol and acetone as well as diesel fuel and anti-freeze. Gloss retention and heat resistance to 180° F. are excellent. Unlike most water based urethanes, AWLGARD is shelf stable and has excellent hiding characteristics. This product is available in Awlgrip's three most popular white colors and one light gray. Apply using brush, roller, or spray. AWLGARD Topcoats are not to be used to paint marine engines. They are fine in the engine room, but use AWLGRIP® to paint the engine(s). AWLGARD Topcoat, like all urethanes, is not to be subjected to extended water immersion.

Specification Data

Type: Two Component Interior Waterborne Urethane
 Color: Matterhorn White (W8201), Cloud White (W8202) & Snow White (W8203)
 Packaging: Available in a 5 quart kit (Gallon can with 3 quarts of base. Quart can of converter (W3201), Quart container of reducer).
 Theoretical Coverage - Sq. Feet/Gallon
 725 Sq. Feet at 1 mil dry film thickness (67m² at 25 microns dry); 363 Sq. Feet at 2 mils dry (33m² at 50 microns dry), 241 Sq. Feet at 3 mils dry (22m² at 75 microns dry).
 Recommended Wet Film Thickness: 4.5-7 mils (112.5-175 microns), total of 2-3 coats.
 Recommended Dry Film Thickness: 2-3 mils (50-75 microns), total of 2-3 coats.
 Coverage calculations are calculated for mixed base and converter, reduced 25% and are based on a theoretical transfer efficiency of 100%. Actual coverage rate obtained will vary according to equipment choice, application techniques, part size, and application environment.
 Anticipated Cure Time at 77°F (25°C)/50% R.H: 18 hours to tape free; 3 days to light service; 7 days for full cure.
 Pot Life: 3-4 hours at 77°F /50% R.H.
 Recoatability: Spray applications consist of two to three coats applied over 1-4 hours. Exact time will vary with temperature, project size, and film thickness applied. Brush/Roller applications require at least 2 coats applied a minimum of 2-16 hours apart. Awlgrip topcoats, which have been allowed to cure more than 24 hours must be sanded before recoating. AWLGRIP®, AWLCRAFT® 2000, or AWLGRIP 2 may be applied over AWLGARD, after a 30 day cure at 77°F(25°C)/50% R.H.

VOC: Matterhorn White (W8201) – 198 g/ltr or 1.7 lbs/gallon
 Cloud White (W8202) - 198 g/ltr or 1.7 lbs/gallon
 Snow White (W8203) - 198 g/ltr or 1.7 lbs/gallon
 Converter (W3201) – 105 g/ltr or 0.9 lbs/gallon
 Reducer (T0149) – 0g/ltr or 0 lbs/gallon

. Product Components, Reducers, Additives, and Auxiliary Components

Matterhorn White.....	W8201
Cloud White.....	W8202
Snow White	W8203
Spray or Brush Converter	W3201
Reducer.....	T0149
Accelerator	None
Equipment Cleaning	Water, MEK, T0002

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Application Equipment

Note: AWLGARD® Interior Urethane products require spray equipment with stainless steel or other water resistant materials for all fluid contact parts and passages.

SPRAY EQUIPMENT**Pressure Pot System Guns**

Binks or equivalent:
Spray Gun: #95
Fluid Nozzle: #63BSS (.046" Orifice Size)
Fluid Needle: #663A
Air Nozzle: #63PW
Pressure pot gauge should read 8 to 12 lbs. with 50 to 60 lbs. atomization.

Siphon or Cup Gun System

Binks or equivalent:
Spray Gun: #95
Fluid Nozzle: #66SS (.070" Orifice Size)
Fluid Needle: #665
Air Nozzle: #63SK
Atomizing air pressure should be approximately 50 to 60 lbs.

High Volume Low Pressure Guns

Binks MACH 1 or equivalent pressure pot:
For use with all Awlgrip Topcoats and low viscosity primers.
Fluid Nozzle: #91 (.040" Orifice Size)
#92 (.046" Orifice Size)
Fluid Needle: #54-4382
Air Nozzle: #93P

BRUSHES AND ROLLERS

Brushes must be recommended for use with solvent containing epoxy or urethane coatings. Natural bristle brushes work best. Do not use products recommended for water based coatings. Roller covers have similar requirements. They can be either foam or conventional mohair type, but must be solvent resistant.

Corona Brushes (813-882-9810) and Redtree Industries (973-481-0941) are good sources for brushes and roller covers.

Surface Preparation

Gelcoat: This product may be applied directly to cured gelcoat, which has been sanded with 220-320 grit paper. Prime and surface with 545 Primer or AWL-QUIK if the surface has excessive porosity, or to maximize gloss and overall cosmetics.

Laminating Resins or Fiberglass Laminate: Priming is not necessary. Clean the surface to remove all waxes, release agents and any other surface contamination. However the resin must be well-cured, hard, slick, and tack free. Some types of laminating resins remain tacky after cure, if the surface to be coated is still tacky, contact the manufacturer of the resin to get instructions for treatment to remove the tackiness before attempting to apply AWLGARD Topcoat to the surface. If there is any doubt about the cure of the surface, apply a small test patch, allow to cure for 24-36 hours and test for adhesion before proceeding. After cleaning, sand lightly to remove any sharp edges and other irregularities prior to painting. Sanding the entire surface is not required. Do not solvent wipe after sanding.

Aluminum Parts: Properly prepared aluminum parts must be primed and sealed with HULL-GARD Epoxy Primer, 545 Epoxy Primer, or AWL-QUIK before applying the AWLGARD Topcoat. 30-Y-94 (S9001/S3001), MAX COR (R4001-S12), and Zinc Chromate Wash Primer (G9072/G3014) can be used as primers direct to the aluminum parts, but they do not provide enough film thickness to serve as a sealer to protect the aluminum parts from the water in AWLGARD Topcoat.

Steel Parts: Great care must be taken when applying water-based coatings to steel parts. Properly prepared steel parts must first be sealed with HULL-GARD Epoxy Primer, 545 Epoxy Primer, High Build Epoxy Primer, or AWL-QUIK before applying the AWLGARD Topcoat. Using a "Holiday Detector" to check for voids in the sealer coat, before applying the topcoat is recommended. 30-Y-94 (S9001/S3001), MAX COR (R4001-S12), and Zinc Chromate Wash Primer (G9072/G3014) can be used as primers direct to the steel parts, but they do not provide enough film thickness to protect the steel parts from the water in the AWLGARD Topcoat.

Mixing & Reduction

Mix by volume (3) three parts AWLGARD Base Component with (1) one part W3201 Converter to a smooth, homogenous mixture. Reduce 15-25% with T0149. Overall mix by volume at 25% reduction is 3:1:1. Example: 9 oz. Base, 3 oz. W3201 Converter, 3 oz. T0149. For Brushing 15% reduction is usually enough, for spray 25% reduction gives a smoother finish. High temperatures may require extra reducer. Do not exceed 40% reduction. A minimum reduction of 10-15% by volume is required for proper film formation.

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Application Instructions

Two to three coats are recommended for spray applications; brush/roller applications require two to three coats. Regardless of application method two coats is the minimum! Topcoating cannot be done in one coat! Do not exceed film thickness recommendation.

Spray Application: Apply a light, smooth, slightly wet tack coat to the surface. Allow tack coat to “flash off” for 20-30 minutes until only slightly tacky before applying second coat. Then apply a full, wet coat to achieve color coverage (i.e., hide) and film thickness requirements. If preferred, three coats may be used. Allow the second coat to “flash off” for 20-30 minutes until only slightly tacky before applying the third coat. In three coat applications, coats two and three are not “full, wet” coats. The second coat is a slightly heavy tack coat with the third coat just wet enough to obtain full hide (opacity) or color coverage. Temperatures below 75°F (25°C) will require longer times between coats.

Brush/Roller Application: Apply topcoat in two to three coats of 1.5 to 2.5 mils WFT each. Allow 2-16 hours between each coat. Sanding between coats with 280 to 400 grit paper will provide a smoother finish.

On large interior surfaces first roll the AWLGARD and then smooth the roller stipple by lightly tipping the surface with a brush. This can be done with 2 painters working side by side (i.e., one rolling and one tipping), or with one painter rolling approximately 6 square feet and then tipping that area before rolling any further.

Do not apply paint materials to surfaces warmer than 105°F or colder than 55°F. Do not attempt to cure products at temperatures below 55°F. Keep from freezing.

The information in this Product Data Sheet is not intended to be exhaustive. Any person using the product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk and, to the extent permitted by law, we can accept no responsibility for the performance of the product or for any loss or damage arising out of such use. The information contained in this Product Data Sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

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