Product Data Sheet
Awlgrip Topcoat VOC (US only)
G-Line

Intended Uses
A two component, polyester based, light-fast, linear aliphatic polyurethane coating with long lasting gloss and color retention, and outstanding chemical resistance. It is formulated to yield an exceptional finish yet has a VOC of only 490g/lt or 4.09lb/gal (US only). Do not use below the waterline. A low maintenance coating. Do not wax, buff, compound or polish.

Awlgrip Topcoat has a 95% gloss or higher on a 60 degree meter as specified by ASTM Test Method D-523-08.

Specification Data

Volume Solids	33%
Specific Gravity	1.15
Available Packs	1 US Quart, 1 US Gallon
Converter	G3039
Reducer	T0163, T0167, T0168
Equipment Cleaning	T0163, T0167, T0168

Theoretical Coverage

Application Methods	Number of Coats	Recommended Per Coat			Theoretical Coverage Per Coat (at recommended DFT)
		WFT	DFT	Max DFT	
Conventional Spray, HVLP Spray	3	75 µm 3 mil	25 µm 1 mil		49 m²/lt 1996.4 ft²/Gal

* In order to achieve full opacity a third coat may be necessary.
Coverage calculations are based on theoretical transfer efficiency of 100%. Actual coverage rate obtained will vary according to equipment choice, application techniques, part size and application environment.

VOC
All VOC information contained herein is theoretical (unless otherwise stated). Actual VOC content may vary by batch and when tested via standard test methodology.

Though VOCs vary by colour, Awlgrip Topcoat, when properly mixed with Awlcat #5 -G3030 and the exempt reducers specified herein and in the proportions specified, will not exceed 490g/lt or 4.09lb/gal (US only).

Product	As Supplied (without reducer)			
	g/l	lb/gal	g/kg	lb/lb
Awlgrip Topcoat VOC (US only)	490	4.09	448	0.45

Surface Preparation
The surface preparation advice provided, and equipment suggestions, can be used as a guide. Preparation techniques and results will vary according to individual conditions, equipment age and other factors. Testing on a non-critical area should be carried out prior to full-scale preparation.

For best results, Awlgrip colors should be applied over properly prepared 545 Epoxy Primer, 321 HS Undercoat or Awlquik Primer in brush/roller applications Awlgrip colors may also be applied over recently applied Awlgrip topcoats/showcoats - consult your local technical sales representative for advice. Awlgrip High Gloss Clear (G3005) can be applied over dark Awlgrip colors which have been sanded with 320-400 grit paper. Do not apply G3005 over white or pastel colors. Do not apply G3005 directly to bare wood.

The primed surface must be clean and dry. Achieving maximum gloss and distinction of image requires the primer to be smooth sanded with 280-400 grit paper before topcoat application. Using a contrasting mist coat of lacquer primer as a "guide coat" is recommended. Smooth sanding until all of the "guide coat" is removed indicates a texture free surface.

Mixing & Reduction
MIXING AND REDUCTION REQUIREMENTS WILL VARY ACCORDING TO INDIVIDUAL CONDITIONS, CLIMATE, EQUIPMENT AGE AND OTHER FACTORS. Mixing and application of a small sample before full scale application is recommended.

Application Methods	Mix Ratio (Base:Converter)	Reducer	Recommended Thinning	Spraying Viscosity
Conventional Spray	1:1 by volume	T0163	0 - 25 %	14 Seconds DIN 4 cup
Conventional Spray	1:1 by volume	T0167	0 - 25 %	14 Seconds DIN 4 cup
Conventional Spray	1:1 by volume	T0168	0 - 25 %	14 Seconds DIN 4 cup

Mix by volume one part Awlgrip Topcoat base component with one part Awlcat #5 (G3039) spray converter to a smooth, homogenous mixture. Reducer addition level required to achieve 14 seconds viscosity (DIN4 or equivalent) varies color to color. For standard conventional spray application this can be attained by adding up to 25% reducer, using the correct spray reducer appropriate for conditions. Clear coats and painting in high temperature conditions may require additional reduction.

For optimum performance, but still keeping VOC compliance (<490g/l), it is possible to blend the reducers as follows:
59-73°F (15-23°C) – blend 3 parts OT0002 (or OT0001) with 7 parts OT0163
73-86°F (23-30°C) – blend 3 parts OT0003 with 7 parts OT0167, or 2.5 parts OT0005 with 7.5 parts OT0163

Please refer to your local representative or visit http://www.awlgrip.com for further information.

>86°F (>30°C) – blend 2.5 parts OT0005 with 7.5 parts OT0168
These blends should be added to the mixed product using the recommended thinning guidelines above.

Application

Application equipment and parameters are given as a guide. Actual equipment choices will vary according to application conditions, equipment age and other factors. Testing on a non-critical area should be carried out prior to full-scale application. Contact your local technical service representative for further advice if necessary.

Apply a medium wet coat to the surface. Allow tack coat to "flash off" for 15 to 45 minutes Allow the second coat to "flash off" for 30-45 minutes until only slightly tacky before applying a third coat. The third coat should be just heavy enough to obtain full hide (opacity) or color coverage.

Typically three coats are recommended for spray applications. Spray applying certain colors may require 4 or more coats to obtain full hide (opacity) or color coverage.

Do not apply paint materials to surfaces less than 3°C (5°F) above dew point, or to surfaces warmer than 41°C (105°F).
Ambient temperature should be minimum 13°C (55°F) and maximum 41°C (105°F).

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Recoatability & Drying Times

The data given for recoatability is not exhaustive. Actual recoatability can vary according to individual conditions, climate and surroundings. If unsure, consult your local technical service representative before proceeding.

Drying	77°F (25°C)		
Hard Dry [ISO]	24 Hours		
Tape Free	24 Hours		
Light Service	3 days		
Cure Time	14 days		
Pot Life	7 Hours		

Overcoated By	77°F (25°C)					
	Min	Max				
Self	30 Minutes	24 Hours				

Warning Notes

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.