

Product Data Sheet

Awlgrip Topcoat VOC Compliant

G-Line



Intended Uses

Awlgrip Topcoat is a premium quality polyurethane high gloss finish, formulated to deliver a great appearance combined with excellent chemical resistance and hardness. Awlgrip topcoat has an easy mix ratio, and can be combined with a range of reducers for a flexible application providing incredible results.

- Easy to apply long lasting finish
- High gloss topcoat with outstanding DOI (distinction of Image)
- Wide color range available on mixitcloud.com.

Do not use below the waterline. Do not wax, buff, compound or polish.

Awlgrip Topcoat has a 95% gloss reflectance or higher on a 60° glossmeter as specified by ASTM D523-14 (2018).

Awlgrip Topcoat is available in a VOC compliant version for the US with a VOC of only 490g/Lt or 4.09lb/gal, when using the correct converter and reducers.

Specification Data

Volume Solids	38-57% depending on application method and color.
Specific Gravity	1.04-1.29 depending on application method and color (unthinned)
Available Packs	1 US Quart, 1 US Gallon
Converter	G3039, H3002
Reducer	T0163, T0167, T0168
Equipment Cleaning	T0163, T0167, T0168
Typical Shelf Life	3 years Converter - 1 Year

Theoretical Coverage

Application Methods	Number of Coats	Recommended Per Coat			Theoretical Coverage Per Coat (at recommended DFT)
		WFT	DFT	Max DFT	
Air Atomized	3	75 µm 3 mil	25 µm 1 mil		13.3 m ² /lt 541.9 ft ² /Gal
Brush, Roller	2	50 µm 2 mil	27 µm 1.1 mil		20 m ² /lt 814.8 ft ² /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 - G3039 and the exempt reducers specified herein and in the proportions specified, will not exceed 490g/lt or 4.09lb/gal (US only).

Awlgrip Topcoat can be VOC compliant in most colors, but customers should refer to VOC chart for actual VOC numbers.

Product	As Supplied (without reducer)			
	g/L	lb/gal	g/Kg	lb/lb
OG3039	234	1.95		
OH3002	276	2.30		
OT0163	0	0	0	0
OT0167	0	0	0	0
OT0168	0	0	0	0
Awlgrip Topcoat VOC Compliant	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 choice/condition and other factors. Testing on a non-critical area should be carried out prior to full-scale preparation.

For best results, Awlgrip Topcoat colors should be applied over properly prepared 545 Epoxy Primer. Awlgrip Topcoat colors may also be applied over recently applied Awlgrip Topcoats/showcoats - consult your local technical sales representative for advice. Awlgrip Topcoat High Gloss Clear (G3005) can be applied over dark Awlgrip Topcoat colors which have been sanded with 320-400 grit paper. Do not apply G3005 over white or pastel colours. 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.

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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
Air Atomized	1:1 by volume	T0163	0 - 25 %	11 - 14 seconds DIN 4 cup
Air Atomized	1:1 by volume	T0167	0 - 25 %	11 - 14 seconds DIN 4 cup
Air Atomized	1:1 by volume	T0168	0 - 25 %	11 - 14 seconds DIN 4 cup

Air Atomized

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 11-14 seconds viscosity DIN4 or equivalent (16-18 seconds viscosity Zahn 2) varies colour to colour. For standard air atomized 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.

Brush/Roller

Mix by volume two parts Awlgrip Topcoat Base component with one part Awlcat #3 (H3002) brushing converter to a smooth, homogenous mixture is obtained. Reduce up to 20%.

For optimum performance, but still keeping VOC compliance (<490g/l or 4.09lb/gal), it is possible to blend the reducers as follows:

15-23°C (59-73°F) – blend 3 parts OT0002 (or OT0001), with 7 parts OT0163

23-30°C (73-86°F) – blend 3 parts OT0003 with 7 parts OT0167, or 2.5 parts OT0005 with 7.5 parts OT0163

>30°C (>86°F) – 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.

For an optimal finish, spray application is recommended when using VOC compliant thinners.



Application

Application equipment and parameters are given as a guide. Actual equipment choices will vary according to application conditions, equipment condition 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 the first coat to "flash off" for 15 to 45 minutes before applying the second coat (flash time will vary depending on temperature and environmental conditions). Allow the second coat to "flash off" for 30-45 minutes until only slightly tacky before applying a third coat. For best results, coats two and three should be applied wet for the paint film to fully coalesce and level. However, take care not to overapply which could lead to sagging of the topcoat.

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



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	25°C (77°F)			
Tape Free	24 Hours			
Light Service	3 Days			
Cure Time	14 Days			
Pot Life	7 Hours			

Overcoated By	25°C (77°F)					
	Min	Max				
Awlgrip Topcoat VOC Compliant	30 Minutes	24 Hours				

The overcoating data above refers to an air atomized application. For brush and roller, the minimum overcoating is 24 hours and the maximum is 2 days at 25°C (77°F).

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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.

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