

Product Data Sheet

Awlwood Clear Gloss

OJ3890



Intended Uses

Awlwood Clear Gloss is designed for exterior application above the waterline. This product is part of a high-performing Primer & Clear Finish system that adheres directly to wood, providing high gloss, distinction of image and enhancing the wood's natural appearance.
Fast-curing, allowing for multiple applications per day
Applicable in a wide range of temperatures and humidities
Provides excellent abrasion resistance and toughness

Specification Data

Volume Solids	45%
Specific Gravity	1.01
Available Packs	1 US Gallon, 1 US Quart
Base	OJ3890
Equipment Cleaning	Awlwood OT0200 Brush Cleaner
Typical Shelf Life	2 years

Theoretical Coverage

Application Methods	Number of Coats	Recommended Per Coat			Theoretical Coverage Per Coat (at recommended DFT)
		WFT	DFT	Max DFT	
Brush, Roller, Air Atomized	8	80 µm 3.1 mil	36 µm 1.4 mil	45 µm 1.8 mil	12 m ² /lt 488.9 ft ² /Gal

Awlwood Clear Gloss is typically applied by applying a specific volume instead of wet film thickness,

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.

Product	As Supplied (without reducer)			
	g/L	lb/gal	g/Kg	lb/lb
Awlwood Clear Gloss	487	4.07	482	0.48



Surface Preparation

Applying over Awlwood Red or Yellow Primer

The primer should be sufficiently cured that it sands easily. Hand sand lightly with the timber grain using P400 grit paper taking care to avoid sanding through the primer - this will cause uneven colouration.

If a greasy timber has been primed or a contaminated substrate is suspected, solvent wipe with Acetone on a rag (wiping off with clean rags) before applying the topcoat. Contaminants from the substrate that float to the surface of the primer can compromise intercoat adhesion.

Applying over Awlwood Clear Primer

The primer should be sufficiently cured that it sands easily. Lightly hand or machine sand using P280-320 grit paper taking care to avoid sanding through the primer. If this occurs spot prime the area and sand carefully when primer has cured. Ensure any glossy areas are well sanded.

If a greasy timber has been primed or a contaminated substrate is suspected, solvent wipe with Acetone on a rag (wiping off with clean rags) before applying the topcoat. Contaminants from the substrate that float to the surface of the primer can compromise intercoat adhesion

Note: If in cold temperatures and/or very dry conditions, the Awlwood Clear Primer feels sticky to the touch or cannot be sanded without clogging the paper after an overnight cure, allow more time before proceeding.

Sealing timber with the intention of topcoating at a later time: It is best to apply one or two coats of Awlwood Gloss over Primers if the job sequence is to be broken. Sand well before continuing. The ideal time to apply the first coat of Awlwood Gloss over the Primer is 24 hours for chemical adhesion.

Applying over epoxy primer or fibreglass/carbon fibre

Machine or hand sand to remove defects finishing with P180 grit paper. Ensure that no epoxy blush is present.

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.

Product Data Sheet

Awlwood Clear Gloss

OJ3890



Mixing & Reduction

Mixing and reduction requirements will vary according to individual conditions, climate, equipment choice/condition 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, Air Assisted Airless, Compliant/RP Spray Gravity	-	T0202	0 - 10 %	-

By brush - Thinning is not usually required. Up to 10% by volume with T0201 Brushing Reducer if necessary.



Application

Suitable application conditions: 4°C - 30°C, Relative humidity 30% - 95%.

Note: Awlwood Clear Gloss cure by the mechanism of moisture in the air (humidity); very low moisture content in the air will lead to longer cure times. Do not use this product in an air-conditioned environment.

Decant sufficient product for 30 minutes use into a roller tray or working pot. Seal the original container immediately to prevent moisture exposure. Screw the cap on fully. A deep working pot is preferable to one that is broad and shallow to minimise moisture exposure and maximise pot life. Do not tip unused product back into the can.

Brush/Roller

If applying by brush or foam/mohair roller, aim to apply approximately 490ft²/gal (12m²/L) on horizontal surfaces and 14m²/L on verticals. Aim to minimise wet edge times and do not overwork the surface. The product will defoam and level well but tacks up relatively quick.

Tipping with a brush gives best results if rolling, particularly if the previous coat is "green". If brushing, synthetic bristled brushes with tapered bristles without flagged or split ends are best, the latter tend to shed excessively.

To obtain full grain fill, especially on Hardwoods with a deep grain structure, and to maximise finish, follow the below recommendations:

Apply the first two coats of Awlwood Clear Gloss at one day intervals to ensure full grain penetration and fill. Sand each coat with P220 – P280 grit paper to flatten the grain texture without sanding through to the primer.

Apply the remaining coats as per the Multicoating section below. For the final coat, refer to the Final Coat Application section below.

In hot and/or windy conditions, Awlwood Clear Gloss will tack up rapidly. To extend the wet edge and increase workability in these conditions thinning up to 10% with Awlwood Brushing Reducer will assist.

By Spray

Awlwood Clear Gloss can be applied by air atomized spray gun. Ensure that before application the substrate is suitably prepared.

Reduce Awlwood Clear Gloss up to 10% with Awlwood Spray Reducer if necessary or safely warm the can – do not use universal thinners.

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Apply the remaining coats as per the Multicoating section below. For the final coat, refer to the Final Coat Application section below.

Do not rapidly apply heavy coats to give film build quickly as solvents will remain trapped in the coating inhibiting performance.

Allow each coat to become touch dry before applying the subsequent coat.

Do not leave Awlwood Clear Gloss in spray pots between coating applications.

Colouring Topcoats

For a richer more traditional appearance, up to 10% of the Awlwood coloured primers can be added to the Awlwood Clear Gloss. This should be done in the first few coats then overcoated with clear topcoat to attain the full coating thickness.

Film Build

Minimum total film build for exterior timber is 10mils (250 microns) which can be attained in 8 coats providing that heavy sanding has not been done. A minimum 0.135 gal (0.5lt) of Awlwood Clear Gloss must be applied per square metre over the job. Heavier film build will improve durability.

On hardwoods, the first couple of coats can develop bubbles from air being pushed out of the grain. Once the timber is completely sealed off this will stop. This effect is significantly exacerbated in full sun conditions and when the substrate is warming. Try to apply these first two coats in shaded conditions or early in the day.

In full sun, the timber substrate can easily reach 60°C (140°F) which can cause the (product) to cure in as little as 10 minutes. If numerous tiny bubbles appear in the surface in these conditions, sand them out and try to apply the coating at either end of the day, in the shade or in overcast conditions.

Between Coats

Sanding is not necessary if overcoating on the same day unless extreme drying conditions are present (full sun or high temperatures) in which case rubbing down with P280 grit paper will ensure good intercoat adhesion.

Sand lightly to remove defects using P220 – 280 grit paper only if necessary. Take care to not over-sand edges. Before the final coat, hand sanding through to P600 grit paper working with the grain will give best results.

Multicoating

Multiple coats may be applied in one day provided the previous coat is sufficiently cured. As a general indicator, when one coat can be pressed with a finger

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Product Data Sheet

Awlwood Clear Gloss

OJ3890



without leaving an indented fingerprint, another coat can be applied without sanding being required. Applying multiple coats in a single day will reduce flow and levelling necessitating more sanding the following day however, multicoating is a useful means of attaining rapid film build.

If multicoating, lightly scuffing between coats with ScotchPad #7447 will dull the surface making it easier for the applicator to avoid misses.

Good practice is to gently sand/scuff the surface at the start of each day to remove any texture, especially on vertical surfaces, and then multi-coat as above.

Final Coat Application

The final coat should be applied in a single application after fine sanding.

If brushing or rolling, better flow levelling will be attained on a well cured substrate. For best results, the final coat should be applied in optimal conditions: out of direct sunlight and in minimal wind. Early in the day is best. Reduce the final coat of Awlwood 10% by volume. Apply the final coat removing any heavy sags or runs but do not overwork the product. Once a non-running film is achieved allow Awlwood to cure and flow on its own – DO NOT CONTINUE TO BRUSH to remove brush marks etc. Awlwood Clear Gloss is designed to flow and level without the need for over-working the product.

If spraying, meticulous care must be taken to ensure a dust and contaminant free environment. If not being applied in a booth, best practice is tenting the area being coated and forcing filtered air in. As a minimum, the area should be completely closed up, vacuumed and thoroughly washed, then washed again the day of application. Reduce the final coat of Awlwood 10% by volume. Apply a mist coat if necessary to assist with vertical hold-up, then follow up with a coat applied with a cross spray pattern or alternatively, cross spray a single coat so that surface received two passes without the initial mist coat.

Recoating

Sand very well using P220 grit paper and apply at least an additional 2 coats. Add coloured primer up to 10% to counter any timber fading if necessary. Touch up any areas of damage first by sanding, re-priming and building up the full coating thickness.

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.

For Air Pressure please refer to the manufacturer's datasheet of the air cap that you are using.

Recommended to thin up to 10% if using a smaller fluid tip. Heavier coats are recommended when spraying as product will flow out and "pull" flat upon curing.

Application Methods	Fluid Tip	Fluid Pressure	Fluid Flow Rate	Air Pressure
Air Atomized	1.40 - 2.00 mm 55 - 79 thou	-	-	-



Recoatibility & 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	15°C (59°F)	25°C (77°F)	30°C (86°F)
Hard Dry	24 Hours	24 Hours	18 Hours
Touch Dry	3 Hours	2 Hours	1.5 Hours
Sandable	8 Hours	4 Hours	3 Hours

Sand using P220-280 grit sandpaper for build coats and up to P600 for the final coat.

Overcoated By	15°C (59°F)		25°C (77°F)		30°C (86°F)	
	Min	Max	Min	Max	Min	Max
Awlwood Clear Gloss	4 Hours	24 Hours ¹	2 Hours	24 Hours ²	1.5 Hours	18 Hours

¹ Without sanding (if not exposed to direct sunlight)

² Without sanding (if not exposed to direct sunlight)



Warning Notes

Not suitable for use in temperatures less than 4°C or greater than 30°C. Not suitable for use in very low humidity atmospheres.

Do not apply when condensation may form on uncured coating.

Do not add any universal or alcohol-based thinners or reducers to Awlwood Clear Gloss.

Some sunscreens contain 'nano grades' of Titanium Dioxide or Zinc Oxide which when transferred from hands onto varnished exterior surfaces will accelerate UV degradation of the surface significantly.

Ensure that brushes washed with Awlwood Brush Cleaner are well rinsed with Acetone, Awlwood Brushing Reducer or Awlwood Spray Reducer before using with Awlwood Clear Gloss.

Check with local authorities to determine VOC restrictions in your area.

Please ensure a risk assessment is carried out to assess the level of PPE required for the particular task undertaken when using this product.

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