

# Product Data Sheet

## Awlwood Clear Gloss

OJ3890



### Intended Uses

Awlwood Clear Gloss is a 1-pack clear varnish, designed for exterior application above the waterline. Combined with Awlwood Primer, Awlwood Clear Gloss forms a fast-curing system with great flow and high abrasion resistance that is both buffable and repairable.

- Best-in-class gloss retention for a great lasting appearance
- Fast-curing, allowing for multiple applications per day
- Exceptional abrasion resistance, perfect for capping rails and deck furniture

### Specification Data

|                           |                              |
|---------------------------|------------------------------|
| <b>Volume Solids</b>      | 45%                          |
| <b>Specific Gravity</b>   | 1.01                         |
| <b>Available Packs</b>    | 1 US Gallon, 1 US Quart      |
| <b>Base</b>               | OJ3890                       |
| <b>Equipment Cleaning</b> | Awlwood OT0200 Brush Cleaner |
| <b>Typical Shelf Life</b> | 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 <sup>1</sup>  | 80 µm<br>3.1 mil     | 36 µm<br>1.4 mil | 45 µm<br>1.8 mil | 12 m <sup>2</sup> /lt<br>488.9 ft <sup>2</sup> /Gal |

<sup>1</sup> minimum

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 Red / Yellow & Clear Primer

Awlwood Primers must be applied over clean, dry, sanded with P120 grit vacuumed and degreased timber. Awlwood Primer should be touch dry and fully absorbed by timber. If still tacky, please leave more time before applying first coat of Awlwood Gloss. Do not sand primer prior to 1st gloss coat application. If O/C window of primer is missed, please hard block sand primer with P120 grit along grain back to bare wood then re-apply primer. For best adhesion, aim to apply first coat of gloss on the same day as the Awlwood Primer.

#### 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.



### 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 |
|---------------------|----------------------------|---------|----------------------|--------------------|
| Air Atomized, Brush | -                          | T0202   | 0 - 10 %             | -                  |

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

Do not thin the 1st and 2nd brush / roller coats of Awlwood Gloss.



### Application

#### Application Conditions

Suitable application conditions: 4°C/39F - 30°C/86F, Relative humidity 30% - 95%.

Note: Awlwood Clear Gloss cures 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. Do not tip unused product back into the can.

#### Brush / Roller Application Tips

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Application by brush or foam/mohair roller. 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. If brushing, synthetic bristled brushes with tapered bristles without flagged or split ends are best.

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.

### Spray Application Tips

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

### Application Process

#### Coats 1 – 3 (Grain Filling)

Coats 1 & 2 should always be applied by brush or roller at 1 day overcoating intervals. On deeper grain hardwood, apply Awlwood Gloss at 1 coat per day, until the grain is filled (Typically 2 – 3 coats), Lightly sand each Awlwood Gloss coat with P220 – P280 grit paper to flatten the grain texture without sanding through to the primer. Do not flood first coat of Awlwood gloss. Do not thin first 2-3 coats of gloss, thinning usually isn't necessary until the final 1-2 finish coats.

Apply the remaining coats as per the Multicoating section below.

#### Multicoating (Coats 3+)

May be applied by either brush / roller or by spray application. 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 without leaving an indented fingerprint, another coat can be applied without sanding being required.

Applying multiple coats in a single day may reduce flow and levelling necessitating more sanding the following day however, multicoating is a useful means of attaining film build.

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.

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.

#### Colouring / Tinting Awlwood Gloss

For a richer more traditional appearance, up to 10% of the Awlwood coloured primers can be added to the Awlwood Clear Gloss during the multicoating phase. This should be done in the first few coats of multicoating then overcoated with clear topcoat to attain the full coating thickness. Do not use dyes and tints other than approved Awlwood tinted primers.

#### Final Coat Application

The final coat should be applied in a single application after good quality finish sanding with no less than P400 grit. For best finish, allow a few days to elapse after multicoating stages to allow for solvent evaporation.

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 Gloss 10% by volume.

When spraying the final coat, 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 full wet 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.

#### Final Recommended Film Build

Minimum total film build for exterior timber is to be no less than 10mils (250 microns) which can be attained in a minimum of 8 coats.

#### Sanding 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.

Start of day sanding may be conducted to lightly to remove defects using P220 – 280 grit paper. Take care to not over-sand edges or radius. Before the final coat, hand block sanding through to P600 grit paper working with the grain will give best results.

#### Recoating / Maintenance Coats

Clean and degrease existing Awlwood Gloss. 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<br>55 - 79 thou | -              | -               | -            |

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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    | 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 <sup>1</sup> | 2 Hours     | 24 Hours <sup>2</sup> | 1.5 Hours   | 18 Hours |

<sup>1</sup> Without sanding (if not exposed to direct sunlight)

<sup>2</sup> Without sanding (if not exposed to direct sunlight)



### Warning Notes

Not suitable for use in temperatures less than 4°C/39F or greater than 30°C/86F. 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.

**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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