

MASSLAM COATINGS

Dulux

Intergrain

ASH

COATINGS.



MASSLAM is a kiln-dried product that needs to be protected by an adequate coating or sealant to achieve performance. If the member remains uncoated or the coating is not adequately maintained, issues will occur from exposure to direct weather, ultraviolet light, heat, changes in humidity and wet materials such as concrete. Concerns are heightened in the timbers' end grain where moisture transfers at a more rapid rate. End grain must be sealed.

This document is to be read in conjunction with the MASSLAM Design Guide. It is critical that design, joint detailing, capping, sealing, storage and handling of MASSLAM be in accordance with recommendations defined by the Service Class number. Refer to the MASSLAM Design Guide.

SEALING OR STAINING MASSLAM

- Before sealing or staining members, it is recommended that MASSLAM members be dry (8-14% moisture content).
- Coatings are to be applied as per the coating manufacturers recommendations. This includes:
 - At least one coat of sealer or primer compatible with the finishing coat (left to dry completely before applying anything else)
 - Sealer or primer is to be applied to any cuts or drill holes prior and during construction. If the sealant does not dry, the members may require further conditioning before any sealant can take
- If installed in a humid environment, coatings containing 'mouldicide' are recommended
- If using an oil-based enamel (i.e. - Dulux Super Enamel High Gloss) we recommend:
 - One coat of oil based primer
 - One coat of oil-based undercoat
 - Two finishing coats (as per coating manufacturers recommendations)
 - A regular maintenance system as per manufacturers recommendations
- If using an exterior solid colour acrylic finish (i.e. - Cabot's Timbercolour Deck & Exterior Paint) we recommend:
 - At least one coat of primer
 - Two finishing coats (as per coating manufacturers recommendations)
 - A regular maintenance system as per manufacturers recommendations
- If using an exterior semi-transparent or solid colour penetrating stain (i.e. - Intergrain UltraDeck Timber Oil or Intergrain UltraDeck Timber Stain) we recommend:
 - One coat of primer
 - Three finishing coats (as per coating manufacturers recommendations)
 - A regular maintenance system as per manufacturers recommendations

APPEARANCE OPTIONS

Intergrain Ultraclear Exterior Satin

Is a tough, clear, marine grade water-based timber finish. Incorporating UV absorbers, UltraClear Exterior has a low odour and will not yellow. Use this coating for a 'natural' clear coat look.

Service Class Application: Can be applied to members in Service Class 1, 2 and 3 areas

Intergrain UltraDeck Timber Stain

A high performance, semi-transparent, water-based stain designed to transform the colour of exterior timber. Use this coating range to select from multiple transparent colours whilst showcasing the grain.

Service Class Application: Can be applied to members in Service Class 1, 2 and 3 areas

Dulux Aquanamel

A water-based, hard wearing coatings that is a low VOC solution for indoor use. Use this coating for a range of opaque painted colours, blocking out the grain.

Service Class Application: Can be applied to members in Service Class 1

Dulux Super Enamel

A hard-wearing, traditional, oil-based interior/exterior high gloss enamel. Ideal for heavy traffic areas. Use this coating for a range of opaque painted colours, blocking out the grain.

Service Class Application: Can be applied to members in Service Class 1, 2 and 3

Cabot's Timbercolour Deck & Exterior Paint

A premium acrylic self-priming exterior paint specifically formulated to provide exceptional durability to all exterior timber surfaces. Use this coating for a semi-transparent range of coloured stains.

Service Class Application: Can be applied to members in Service Class 1, 2 and 3 areas

UNDERSTANDING MAINTENANCE

Internal, protected, undamaged (Service Class 1) applications do not require regular maintenance.

External (Service Class 2 and 3) applications do require maintenance.

To conform to the period of the coating guarantee in specific situations, consideration must be given to design of a component, its construction and the climate - due to the variation of humidity and UV exposure from North to South of Australia - to which a member is exposed. The effect of these elements is demonstrated within the tables below.

TEMPORARY WEATHER PROTECTION – OIL PRIMER

One coat of factory-applied oil primer provides durable temporary weather protection of MASSLAM members during construction.

Intergrain's Universal Timber Oil is ASH's primer of choice and a product that creates an unlocked system that is compatible with both oil-based and water-based finish/top coats.

This form of temporary protection is ideal for structural timber members in construction that are being lifted and moved around with large cranes and mobile plant. Marks and local damage are near impossible to avoid, and an oil primer can be easily sanded and touched up locally as opposed to film-forming coatings that require entire faces to be sanded back and coatings re-applied.

Oil primers are not perfect however, and a common feature resulting from storage and handling requirements is bearer marks. This is nothing to be concerned about as our experience has shown that with the necessary preparation and application works for finish coats (cleaning, light sanding, and touch-ups with timber oil) blemishes and/or bearer marks blend in with the subsequent coating layers.



Left image indicates bearer marks visible during construction, however once final preparation and application work is completed after construction (right image), bearer marks are no longer visible.

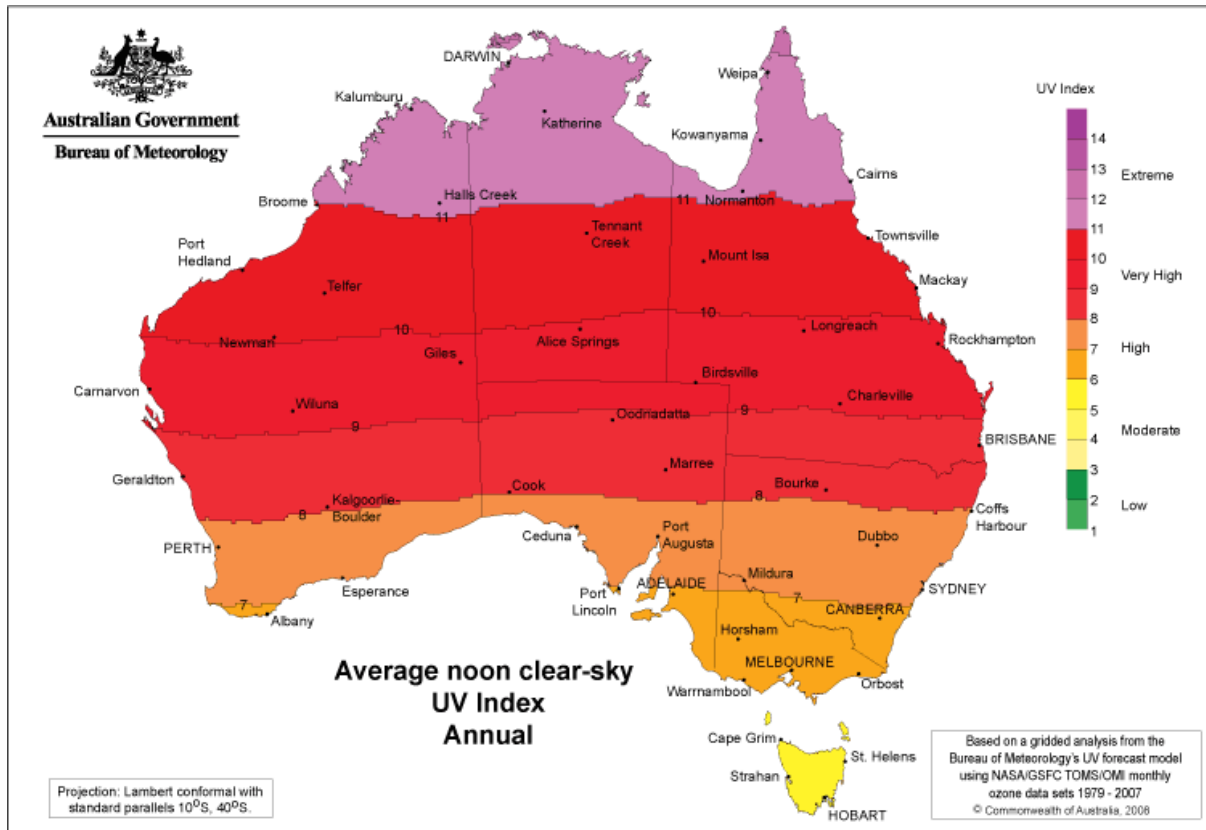
Please note, pre-attachment/pre-assembly works and extended storage periods can exacerbate the issue. Plugs and cover plates are supplied bare and uncoated and require local sanding and a primer coat of timber oil.

For further advice on finish coat requirements, please reach out to a MASSLAM specialist and your coating supplier.

CLIMATES

Consideration must be given to the location and climate of the build to conform to the period of the coating guarantee.

CLIMATE ZONES:



Moderate to high climate zone

	CLIMATE		
CONSTRUCTION	Moderate: Typically non-coastal areas at low altitude	Harsh: Exposed inland locations and areas within 1 km of the coast	Extreme: Areas of high altitude and exposed coastal sites
Sheltered, e.g. beneath porch or large roof overhang **	8 years for opaque coatings, 6 years for translucent coatings	7 years for opaque coatings, 5 years for translucent coatings	7 years for opaque coatings, 5 years for translucent coatings
Partly sheltered, e.g. window built back into reveal **	8 years for opaque coatings, 6 years for translucent coatings	6 years for opaque coatings, 4 years for translucent coatings	5 years for opaque coatings, 3-4* years for translucent coatings
Not sheltered, e.g. face of building **	7 years for opaque coatings, 5 years for translucent coatings	5 years for opaque coatings, 3-4* years for translucent coatings	4 years for opaque coatings, 2-3 years for translucent coatings

* Shorter warranty periods for lighter translucent shades e.g. Dulux's Pine and Light Oak

** If height of building is > 2 floors the warranty period drops by 1 year

Very high climate zone

	CLIMATE		
CONSTRUCTION	Moderate: Typically non-coastal areas at low altitude	Harsh: Exposed inland locations and areas within 1 km of the coast	Extreme: Areas of high altitude and exposed coastal sites
Sheltered, e.g. beneath porch or large roof overhang **	7 years for opaque coatings, 5 years for translucent coatings	6 years for opaque coatings, 4 years for translucent coatings	6 years for opaque coatings, 4 years for translucent coatings
Partly sheltered, e.g. window built back into reveal **	7 years for opaque coatings, 5 years for translucent coatings	5 years for opaque coatings, 3 years for translucent coatings	4 years for opaque coatings, 2-3* years for translucent coatings
Not sheltered, e.g. face of building **	6 years for opaque coatings, 4 years for translucent coatings	4 years for opaque coatings, 2-3* years for translucent coatings	3 years for opaque coatings, 1-2 years for translucent coatings

* Shorter warranty periods for lighter translucent shades e.g. Dulux's Pine and Light Oak

** If height of building is > 2 floors the warranty period drops by 1 year

Extreme climate zone

	CLIMATE		
CONSTRUCTION	Moderate: Typically non-coastal areas at low altitude	Harsh: Exposed inland locations and areas within 1 km of the coast	Extreme: Areas of high altitude and exposed coastal sites
Sheltered, e.g. beneath porch or large roof overhang **	6 years for opaque coatings, 4 years for translucent coatings	5 years for opaque coatings, 3 years for translucent coatings	5 years for opaque coatings, 3 years for translucent coatings
Partly sheltered, e.g. window built back into reveal **	6 years for opaque coatings, 4 years for translucent coatings	4 years for opaque coatings, 3 years for translucent coatings	3 years for opaque coatings, 2-3* years for translucent coatings
Not sheltered, e.g. face of building **	5 years for opaque coatings, 3 years for translucent coatings	3 years for opaque coatings, 1-2* years for translucent coatings	2 years for opaque coatings, 0-1 years for translucent coatings

* Shorter warranty periods for lighter translucent shades e.g. Dulux's Pine and Light Oak

** If height of building is >2 floors the warranty period drops by 1 year

DISCLAIMER

These MASSLAM coating guidelines provide general advice based on current information and industry practices. ASH and Dulux/Intergrain acknowledges that these recommendations will not suit every possible project. For durability, maintenance or specification enquiries relating to coatings, please phone Intergrain on 1800 630 285.

