

Substrate Characteristics

Timber is a dimensionally unstable material that expands and contracts with changing moisture content. The timber surface is eroded by ultra violet light, normally changing to a grey colour, leaving cellulose fibres exposed on the surface. Timber also provides a source of nutrient for mould growth. A protective system for timber needs to combat these three sources of aggression; viz. water, ultra violet light and mould.

Surface Preparation

New Work - see [Surface Preparation D82](#) for detailed preparation guidelines.

Repaints - see [Surface Preparation D87](#) for detailed preparation guidelines.

4e 1/3 Exterior Waterborne

Although Resene Lumbersider (see [Data Sheet D34](#)) is designed to work in two coats, a third coat will substantially improve the durability of the system potentially doubling its lifetime. Regular washing of the surface with Resene Moss & Mould Killer (see [Data Sheet D80](#)) also extends the life of the system. Optional over bare timber is pretreatment with Resene TimberLock (see [Data Sheet D48](#)), which improves the durability of subsequent coatings. An economic non-skid finish may be achieved using Resene Non-Skid Deck & Path (see [Data Sheet D313](#)) on timber decking and stairs.

Generic Specification				Resene Spec No.	Resene One-Line Specification			
Substrate	Environment	Paint Type	Gloss Level		Surface Prep	1st Coat	2nd Coat	3rd Coat
Timber Decks etc.	Exterior	Waterborne	Satin	4e 1.3	D82 & TimberLock D48	NRS: Lumbersider D34 NSF: Quick Dry D45	Lumbersider D34 Non-Skid Deck & Path D313	Lumbersider D34 Non-Skid Deck & Path D313
Timber Pergolas, Fences etc.	Exterior	Waterborne	Flat	4e 3.5	D82	SF: Waterborne Woodsman D57a	Waterborne Woodsman D57a	Waterborne Woodsman D57a (after 3 months)

Key: NRS = Normal Recommended System NSF = Non-Skid Finish SF = Stained Finish

4e 4 Exterior Solventborne

Resene Woodsman (waterborne see [Data Sheet D57a](#), solventborne see [Data Sheet D57](#)) is a penetrating stain that does not form a surface film. For dressed timber apply a third coat after three months. Semi-transparent stains are not as durable as fully pigmented systems and Resene Woodsman will require maintenance after two summers. Resene Kwila Timber Stain (see [Data Sheet D501](#)) is designed for application over new and weathered Kwila, Cedar and other exterior timber decks and furniture. Resene Furniture and Decking Oil (see [Data Sheet D503](#)) is designed for direct application to timber decks and furniture to enhance and restore the timber colour and provide protection against water, fungi, and U.V. light. The product is designed for annual application to keep decks and furniture in good condition and assist with water repellency. Like Resene Woodsman, Resene Kwila Timber Stain and Resene Furniture and Decking Oil penetrate into the timber and do not form a surface film.

Generic Specification				Resene Spec No.	Resene One-Line Specification			
Substrate	Environment	Paint Type	Gloss Level		Surface Prep	1st Coat	2nd Coat	3rd Coat
Timber Decks, Furniture etc.	Exterior	Solventborne	Flat	4e 4.5	D82	Woodsman D57	Woodsman D57	Woodsman D57 (after 3 months)
Timber Decks, Furniture etc.	Exterior	Solventborne	Flat	4e 4.5^C	D82	Kwila Timber Stain D501	Kwila Timber Stain D501	-
Timber Decks, Furniture etc.	Exterior	Solventborne	Flat	4e 4.5^N	D82	Furniture and Decking Oil D503	Furniture and Decking Oil D503	-

Exterior Timber Decks, Fences and Pergolas