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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. Naturally occurring anti-oxidants in Matai, Merbeau, Spotted Gum and Totara inhibit the curing of oxidatively drying paints including solventborne enamels, primers, undercoats, oil modified urethanes and solventborne stains. These materials may transfer through any solventborne system to affect subsequent coats. Highly filled undercoats may give an impression of having dried without really curing.

Surface Preparation

New Work - see **Surface Preparation D82** for detailed preparation guidelines. Repaints - see **Surface Preparation D87** for detailed preparation guidelines.

9e 1 Exterior Waterborne

Waterborne paints are most suitable for exterior applications being more durable and flexible than solventborne paints. All unsealed cracks and end grains <u>must</u> be sealed to prevent moisture

Exterior Matai, Merbeau, Spotted Gum and Totara only

penetration. Sharp edges on timber are difficult to coat as paint tends to flow away from edges leaving weak spots – ensure all sharp edges and rough profiles are rounded before painting to promote good film build. Optional over bare timber is pretreatment with Resene TimberLock (see Data Sheet D48) to improve the durability of subsequent coatings. For better hiding, Resene Acrylic Undercoat (see Data Sheet D404) tinted to the correct colour may replace one of the topcoats.

Gen	eric Spe	cificatior	n	Resene	Resene One-Line Specification					
Substrate	Environ- ment	Paint Type	Gloss Level	Spec No.	Surface Prep	1st Coat		2nd Coat	3rd Coat	
Matai, Merbeau Spotted Gum and Totara	Exterior	Waterborne	Gloss	9e 1.1	D82 & TimberLock D48	Quick Dry	D45	Hi-Glo * D31 Acrylic Undercoat D40	Hi-Glo * D31	
Matai, Merbeau Spotted Gum and Totara	Exterior	Waterborne	Semi- Gloss	9e 1.2	D82 & TimberLock D48	Quick Dry	D45	Sonyx 101 * D30 Acrylic Undercoat D40	Sonyx 101 * D30	
Matai, Merbeau Spotted Gum and Totara	Exterior	Waterborne	Satin	9e 1.3	D82 & TimberLock D48	NRS: Quick Dry SP: Lumbersider	D45 D34	Lumbersider D34 Acrylic Undercoat D40 Lumbersider D34	U34	

* For doors, windows and joinery, use Resene Enamacryl (see Data Sheet D309) in place of Resene Hi-Glo (see Data Sheet D31) and Resene Lustacryl (see Data Sheet D310) in place of Resene Sonyx 101 (see Data Sheet D30).

9e 2 Exterior Solventborne

Resene Quick Dry Acrylic Primer (see Data Sheet D45) is the recommended primer for maximum flexibility and durability and required to seal off the anti-oxidant in the timber. All solventborne air-drying enamels slowly embrittle with age and dark colours exposed to the sun accelerate this embrittlement. Windowsills angled in a manner to catch maximum sun provide the most stressful environment. Solventborne paints are suitable for all timber joinery including doors and windows. Because doors tend to be people's first point of contact, it is important an immaculate finish is achieved by using a high quality brush or roller. Optional over bare timber is pretreatment with Resene TimberLock to improve the durability of subsequent coatings. For better hiding, Resene Acrylic Undercoat tinted to the correct colour may replace one of the topcoats. Semi-gloss and flat solventborne paints do not have the necessary weather resistance for exterior exposure. Clear finishes for exterior timber environments are generally not recommended.

Generic Specification				Resene	Resene One-Line Specification					
Substrate	Environ- ment	Paint Type	Gloss Level	Spec No.	Surface Prep	1st Coat	2nd Coat	3rd Coat		
Matai, Merbeau Spotted Gum and Totara	Exterior	Solventborne	Gloss	9e 2.1	D82 & TimberLock D48	Quick Dry D45	Acrylic Undercoat D404	Super Gloss D32		

Key: NRS = Normal Recommended System SP = Self Priming



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Substrate Characteristics

Timber is a dimensionally unstable material that expands and contracts with changing moisture content. Timber provides a source of nutrient for mould growth and a protective system for timber needs to combat this. Naturally occurring anti-oxidants in Matai, Merbeau, Spotted Gum and Totara inhibit the curing of oxidatively drying paints including solventborne paints, primers, undercoats, oil modified urethanes and solventborne stains. These materials may transfer through any solventborne system to affect subsequent coats. Highly filled undercoats may give an impression of having dried without really curing.

Surface Preparation

New Work - see **Surface Preparation D82** for detailed preparation guidelines. Repaints - see **Surface Preparation D87** for detailed preparation guidelines.

9i 1 Interior Waterborne

Waterborne enamels Resene Enamacryl (see Data Sheet D309) and Resene Lustacryl (see Data Sheet D310) may be used in areas traditionally reserved for solventborne paints with the added benefits of non-yellowing, fast drying and low odour. Resene SpaceCote Low Sheen (see Data Sheet D311) is designed to bring enamel-style toughness to broadwall areas in a low sheen finish without sacrificing durability. It is so adaptable that it may also be used on interior and exterior

Interior Matai, Merbeau, Spotted Gum and Totara only

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Gen	eric Spe	cificatior	า	Resene	Resene One-Line Specification						
Substrate	Environ- ment	Paint Type	Gloss Level	Spec No.	Surface Prep	1st Coat	2nd Coat	3rd Coat			
Matai, Merbeau Spotted Gum and Totara	Interior	Waterborne	Gloss	9i 1.1	D82 & TimberLock D48	Quick Dry D45	Enamacryl Acrylic Undercoat	D309 Enamacryl D404 D309			
Matai, Merbeau Spotted Gum and Totara	Interior	Waterborne	Semi- Gloss	9i 1.2	D82 & TimberLock D48	Quick Dry D45	Lustacryl Acrylic Undercoat	D310 Lustacryl D404 D310			
Matai, Merbeau Spotted Gum and Totara	Interior	Waterborne	Low Sheen	9i 1.4	D82 & TimberLock D48	Quick Dry D45	SpaceCote Low Sheen Acrylic Undercoat	D311 SpaceCote Low Sheen D404 D311			
Matai, Merbeau Spotted Gum and Totara	Interior	Waterborne	Flat	9i 1.5	D82 & TimberLock D48	Quick Dry D45	SpaceCote Flat Acrylic Undercoat	D314 SpaceCote Flat D404 D314			

joinery and trim. For better hiding, Resene Acrylic Undercoat (see Data Sheet D404) tinted to the correct colour may replace one of the topcoats.

9i 2 Interior Solventborne

Resene Quick Dry Acrylic Primer Undercoat (see Data Sheet D45) is the recommended primer for maximum flexibility, durability and required to seal off the anti-oxidants in the timber. Although higher gloss products are harder wearing than semi-gloss and flat solventborne paints, they will highlight surface imperfections. Pretreatment with Resene TimberLock (see Data Sheet D48) is recommended for timber in wet areas, such as bathrooms, laundries and windowsills, where condensation occurs. All enamels yellow somewhat in the absence of light, most noticeably in cupboards and behind pictures. Exposure to light bleaches out the yellow. For better hiding, Resene Acrylic Undercoat tinted to the correct colour may replace one of the topcoats.

Gen	eric Spe	cification		Resene	Resene One-Line Specification				
Substrate	Environ- ment	Paint Type	Gloss Level	Spec No.	Surface Prep	1st Coat	2nd Coat	3rd Coat	
Matai, Merbeau Spotted Gum and Totara	Interior	Solventborne	Gloss	9i 2.1	D82 & TimberLock D48	Quick Dry D45	Acrylic Undercoat D404	Super Gloss D32	
Matai, Merbeau Spotted Gum and Totara	Interior	Solventborne	Semi- Gloss	9i 2.2	D82 & TimberLock D48	Quick Dry D45	Lusta-Glo D33 Acrylic Undercoat D404	Lusta-Glo D33	
Matai, Merbeau Spotted Gum and Totara	Interior	Solventborne	Flat	9i 2.5	D82 & TimberLock D48	Quick Dry D45	Flatcote D306 Acrylic Undercoat D404	Flatcote D306	



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Substrate Characteristics

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Surface Preparation

New Work - see **Surface Preparation D82** for detailed preparation guidelines. Repaints - see **Surface Preparation D87** for detailed preparation guidelines.

9e 3/4 Exterior Waterborne/Solventborne

Generally solventborne, oxidatively film forming stains cannot successfully be used, due to the presence of anti-oxidants in the timber. Non film forming, penetrating stains, such as Resene Woodsman (waterborne see Data Sheet D57a, solventborne see Data Sheet D57) are suitable but

Exterior and Interior Stains and Clear Finishes on Matai, Merbeau, Spotted Gum and Totara

even so, excess material must be wiped from the surface. Semi-transparent stains are not as durable as fully pigmented systems and Resene Woodsman will require maintenance after two summers.

Gen	eric Spe	cification		Resene	Resene One-Line Specification					
Substrate	Environ- ment	Paint Type	Gloss Level	Spec No.	Surface Prep	1st Coat	2nd Coat	3rd Coat		
Matai, Merbeau Spotted Gum and Totara	Exterior	Waterborne	Flat	9e 3.5	D82	Waterborne Woodsman D57a	Waterborne Woodsman D57a	Waterborne Woodsman D57a (after 3 months)		
Matai, Merbeau Spotted Gum and Totara	Exterior	Solventborne	Flat	9e 4.5	D82	Woodsman D57	Woodsman D57	Woodsman D57 (after 3 months)		

9i 3/4 Interior Waterborne/Solventborne

Ensure sharp edges and rough profiles are rounded before painting to promote good film build. All unsealed cracks and end grains, such as under doors, <u>must</u> be sealed to prevent isolated blistering caused by moisture penetration. For floors and where a really tough surface is required Resene Polythane (see <u>Data Sheet D53</u>) is the best recommendation. An additional coat is recommended on flooring surfaces. Oxidatively drying clears such as the Resene Qristal Clear polyurethane range (see <u>Data Sheet D52</u>) require a waterborne sealer to seal off the natural anti-oxidants present in Matai, Merbeau, Spotted Gum and Totara.

Gen	eric Spe	cification	Resene	Resene One-Line Specification						
Substrate	Environ- ment	Paint Type	Gloss Level	Spec No.	Surface Prep	1st Coat		2nd Coat	3rd Coat	4th Coat optional
Matai, Merbeau Spotted Gum and Totara	Interior	Waterborne	Gloss	9i 3.1	D82	Aquaclear	D59	Aquaclear D59	Aquaclear D59	Aquaclear D59
Matai, Merbeau Spotted Gum and Totara	Interior	Waterborne	Semi- Gloss	9i 3.2	D82	Aquaclear	D59	Aquaclear D59	Aquaclear D59	Aquaclear D59
Matai, Merbeau Spotted Gum and Totara	Interior	Waterborne	Satin	9i 3.3	D82	Aquaclear	D59	Aquaclear D59	Aquaclear D59	Aquaclear D59
Matai, Merbeau Spotted Gum and Totara	Interior	Solventborne	Gloss	9i 4.1	D82			Poly-Gloss D52 Polythane D53		
Matai, Merbeau Spotted Gum and Totara	Interior	Solventborne	Satin	9i 4.3	D82	Aquaclear	D59	Poly-Satin D52	Poly-Satin D52	Poly-Satin D52
Matai, Merbeau Spotted Gum and Totara	Interior	Solventborne	Flat	9i 4.5	D82	Aquaclear	D59	Poly-Flat D52	Poly-Flat D52	Poly-Flat D52

Key: HDS = Heavy Duty System NRS = Normal Recommended System

If in doubt about any aspect of your specification please contact Resene.