

the paint the professionals use

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Substrate Characteristics

Concrete is the complex reaction product of aggregates, silica sand and calcium silicates present in cement. Lime is produced during the setting reaction, which slowly further reacts with the silica sand to form more cement. This lime production accounts for the high initial alkalinity of concrete and is influenced by the amount of water added, type of aggregate and additives used. Excess lime may migrate to the surface as laitance, efflorescence or lime staining. Resene Limelock (see Data Sheet D809) is recommended on all fresh plaster to prevent lime staining. The cement matrix is slowly eroded by acids normally present in rain, so that old weathered concrete may have a weak, unbound layer of sand on the surface.

Surface Preparation

New Work - see **Surface Preparation D83** for detailed preparation guidelines. Repaints - see **Surface Preparation D87** for detailed preparation guidelines.

1e 1 Exterior Waterborne

For exterior concrete Resene recommends waterborne paints because of their inherent durability and alkali resistance. The glossier finishes are generally tougher and more easily cleaned <u>but</u> highlight surface imperfections to a greater degree. Textured coatings are best at disguising poor

Exterior Cementitious Surfaces

Cement Render (Exterior Insulation and Finishing System (EIFS), Rough Cast, Stucco), Concrete, Concrete Block, Concrete Masonry, Glass Reinforced Cement, Fibre Reinforced Cement Board and Tilt Slab

quality substrates. Resene Sureseal (see Data Sheet D42) is a surface conditioner that also reduces water staining. Resene Limelock is a preparatory coating designed to cure and seal cementitious surfaces by retaining moisture necessary to achieve cure and trapping free lime, minimising downtime between the completion of plastering and commencement of painting. For better hiding, Resene Acrylic Undercoat (see Data Sheet D404) tinted to the correct colour may replace one of the topcoats. See specification system sheets for Waterproofing (17e), Flooring (18e/i), Anti-Graffiti (19e/i), Textured Coatings (20e/i) and Paint Effects (21e/i).

Generic Specification				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		
Cementitious Surfaces	Exterior	Waterborne	Gloss	1e 1.1	D83 TP: Limelock D809	SCS: Concrete Primer D405 P: Sureseal D42	Hi-Glo D31 Acrylic Undercoat D404	Hi-Glo D31	Multishield + D54a		
Cementitious Surfaces	Exterior	Waterborne	Semi- Gloss	1e 1.2	D83 TP: Limelock D809	SCS: Concrete Primer D405 P: Sureseal D405 P309 P309 P309 P309 P309 P309 P309 P309	Sonyx 101 D30 Acrylic Undercoat D404 Sonyx 101 D30	Sonyx 101 D30	Multishield + D54a		
Cementitious Surfaces	Exterior	Waterborne	Satin	1e 1.3	D83 TP: Limelock D809	SCS: Concrete Primer D405 P: Sureseal D42 SP: Lumbersider D34	Lumbersider D34 Acrylic Undercoat D404 Lumbersider D34	Lumbersider D34	Multishield + D54a		

1e 2 Exterior Solventborne

Solventborne paints are generally not recommended over cement based surfaces. If they are used, the concrete must be well cured before coating (minimum twelve months). Resene Sureseal is a surface conditioner that also reduces water staining. Resene Limelock is a preparatory coating designed to cure and seal cementitious surfaces by retaining moisture necessary to achieve cure and trapping free lime, minimising downtime between the completion of plastering and commencement of painting. 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.

Generic Specification				Resene	Resene One-Line Specification					
Substrate	Environ- ment	Paint Type	Gloss Level	Spec No.	Surface Prep	1st Coat	2nd Coat	3rd Coat		
Cementitious Surfaces	Exterior	Solventborne	Gloss	1e 2.1	D83 TP: Limelock D809	SCS: Concrete Primer D405 P: Sureseal D42	Acrylic Undercoat D404	Super Gloss D32		

Key: P = Powdery RM = Risk of Mould SCS = Sound Cementitious Surfaces SP = Self Priming TP = Thin Plaster



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Substrate Characteristics

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Surface Preparation

New Work - see Surface Preparation D83 for detailed preparation guidelines. Repaints - see Surface Preparation D87 for detailed preparation guidelines.

1i 1 Interior Waterborne

Typically waterborne paints tend to be thermoplastic and may pick up dirt as well as softening after repeated hand contact. Waterborne enamels Resene Enamacryl (see Data Sheet D309), Resene Lustacryl (see Data Sheet D310) and Resene SpaceCote Low Sheen (see Data Sheet D311) have been specifically designed to overcome these traditional weaknesses. Textured coatings are best at disguising poor quality substrates. Resene Sureseal (see Data Sheet D42) is a surface conditioner that also reduces water staining. For better hiding, Resene Acrylic Undercoat (see Data Sheet

Interior **Cementitious Surfaces**

Cement Render (Stucco), Concrete, Concrete Block, Fibre **Reinforced Cement Board and** Tilt Slab

D404) tinted to the correct colour may replace one of the topcoats. Resene recommends waterborne paints over cementitious surfaces because of their inherent alkali resistance. See specification system sheets for Flooring (18e/i), Anti-Graffiti (19e/i), Textured Coatings (20e/i) and Paint Effects (21e/i).

Gene	ric Speci		Resene	Resene One-Line Specification							
Substrate	Environ- ment	Paint Type	Gloss Level	Spec No.	Surface Prep	1st Coa	t		2nd Coat		3rd Coat
Cementitious Surfaces	Interior	Waterborne	Gloss	1i 1.1	D83 TP: Limelock D809	SCS: P:	Concrete Primer Sureseal	D405 D42	Enamacryl Acrylic Undercoat	D309 D404	Enamacryl D309
Cementitious Surfaces	Interior	Waterborne	Semi- Gloss	1i 1.2	D83 TP: Limelock D809	SCS: P: SP:	Concrete Primer Sureseal Lustacryl	D42	Lustacryl Acrylic Undercoat Lustacryl	D310 D404 D310	Lustacryl D310
Cementitious Surfaces	Interior	Waterborne	Satin	1i 1.3	D83 TP: Limelock D809	SCS: P: SP:	Concrete Primer Sureseal Lumbersider	D42	Lumbersider Acrylic Undercoat Lumbersider	D34 D404 D34	Lumbersider D34
Cementitious Surfaces	Interior	Waterborne	Low Sheen	1i 1.4 ^{zs}	D83 TP: Limelock D809	SCS: P: SP:	Concrete Primer Sureseal Zylone Sheen	D42	Zylone Sheen Acrylic Undercoat Zylone Sheen	D302 D404 D302	Zylone D302
Cementitious Surfaces	Interior	Waterborne	Low Sheen	1i 1.4 ^{sc}	D83 TP: Limelock D809	SCS: P: SP:	Concrete Primer Sureseal SpaceCote Low Sheen	D42	SpaceCote Low Sheen Acrylic Undercoat SpaceCote Low Sheen	D404	SpaceCote Low Sheen D311
Cementitious Surfaces	Interior	Waterborne	Flat	1i 1.5	D83 TP: Limelock D809	SCS: P: SP:	Concrete Primer Sureseal Zylone 20	D42	Zylone 20 Acrylic Undercoat Zylone 20	D37 D404 D37	Zylone 20 D37
Cementitious Surfaces	Interior	Waterborne	Flat	1i 1.5 ^{sc}	D83 TP: Limelock D809	SCS: P: SP:	Concrete Primer Sureseal SpaceCote Flat	D42	SpaceCote Flat Acrylic Undercoat SpaceCote Flat	D404	SpaceCote Flat D314

Key: P = Powdery SCS = Sound Cementitious Surfaces SP = Self Priming TP = Thin Plaster





Continued

1i 2 Interior Solventborne

Solventborne paints are generally not recommended over cement based surfaces. If they are used, the concrete must be well cured before coating (minimum twelve months). Resene Sureseal is a surface conditioner that also reduces water staining. For better hiding, Resene Acrylic Undercoat tinted to the correct colour may replace one of the topcoats.

Ger	eric Spe	cification	1	Resene	Resene One-Line Specification					
Substrate	Environ- ment	Paint Type	Gloss Level	Spec No.	Surface Prep	1st Coat		2nd Coat	3rd Coat	
Cementitious Surfaces	Interior	Solventborne	Gloss	1i 2.1	D83 TP: Limelock D809	SCS: Concrete Primer P: Sureseal	D405 D42	Acrylic Undercoat D404	Super Gloss D32	
Cementitious Surfaces	Interior	Solventborne	Semi- Gloss	1i 2.2	D83 TP: Limelock D809	SCS: Concrete Primer P: Sureseal	D405 D42	Lusta-Glo D33 Acrylic Undercoat D404	Lusta-Glo D33	
Cementitious Surfaces	Interior	Solventborne	Flat	1i 2.5	D83 TP: Limelock D809	SCS: Concrete Primer P: Sureseal	D405 D42	Flatcote D306 Acrylic Undercoat D404	Flatcote D306	

Key:

P = Powdery

SCS = Sound Cementitious Surfaces

TP = Thin Plaster