Exterior Baked Enamel Systems (COLORSTEEL®), Glass, Glazed Tiles, Polyethylene* and Polypropylene*

Substrate Characteristics

The key aspect in painting these surfaces is adhesion. These surfaces are difficult to adhere to and require a special adhesion primer. Once primed the materials may generally be treated as normal. Polyethylene and polypropylene however, are exceptionally difficult and even special adhesion promoted primers do not develop what could be categorised as excellent adhesion. Furthermore, these materials soften under the influence of heat and overcoating with dark colours should be avoided.

Surface Preparation

New Work - see **Surface Preparation D802** for detailed preparation guidelines for glass and glazed tiles.
New Work - see **Surface Preparation D803** for detailed preparation guidelines for baked enamel systems, polyethylene and polypropylene.
Repaints - see **Surface Preparation D87** for detailed preparation guidelines.

11e 1 Exterior Waterborne

Waterborne paints are most suitable for exterior applications being more durable and flexible than solventborne paints. For better hiding, Resene Acrylic Undercoat (see Data Sheet D404) tinted to the correct colour may replace one of the topcoats.

Generic Specification				Resene Spec No.	Resene One-Line Specification			
Substrate	Environment	Paint Type	Gloss Level		Surface Prep	1st Coat	2nd Coat	3rd Coat
Glass etc.	Exterior	Waterborne	Gloss	11e 1.1	D802 or D803	SS: WB Smooth S.S. D47a CST: Galvo One D41	Hi-Glo D31 Acrylic Undercoat D404	Hi-Glo D31
Glass etc.	Exterior	Waterborne	Semi-Gloss	11e 1.2	D802 or D803	SS: WB Smooth S.S. D47a CST: Galvo One D41	Sonyx 101 D30 Acrylic Undercoat D404	Sonyx 101 D30
Glass etc.	Exterior	Waterborne	Satin	11e 1.3	D802 or D803	SS: WB Smooth S.S. D47a CST: Galvo One D41	Lumbersider D34 Acrylic Undercoat D404	Lumbersider D34

11e 2 Exterior Solventborne

All enamels slowly embrittle with age and dark colours exposed to the sun accelerate this embrittlement. Dark colours should therefore be avoided. Semi-gloss and flat solventborne paints do not have the necessary weather resistance for exterior exposure. For better hiding, Resene Acrylic Undercoat tinted to the correct colour may replace one of the topcoats.

Generic Specification				Resene Spec No.	Resene One-Line Specification			
Substrate	Environment	Paint Type	Gloss Level		Surface Prep	1st Coat	2nd Coat	3rd Coat
Glass etc.	Exterior	Solventborne	Gloss	11e 2.1	D802 or D803	WB Smooth S.S. D47a	Acrylic Undercoat D404	Super Gloss D32

Key: CST = COLORSTEEL® SS = Smooth Surface

* = Thermoplastic Substrata

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Interior Baked Enamel Systems, Formica®, Glass, Glazed Tiles, Polyethylene*, Polypropylene* and Varnished Surfaces

Substrate Characteristics

The key aspect in painting these surfaces is adhesion. These surfaces are difficult to adhere to and require a special adhesion primer. Once primed the materials may generally be treated as normal. Polyethylene and polypropylene however, are exceptionally difficult and even special adhesion promoted primers do not develop what could be categorised as excellent adhesion.

Surface Preparation

New Work - see **Surface Preparation D802** for detailed preparation guidelines for glass and glazed tiles.
New Work - see **Surface Preparation D803** for detailed preparation guidelines for baked enamel systems, polyethylene and polypropylene.
Repaints - see **Surface Preparation D87** for detailed preparation guidelines.

11i 1 Interior Waterborne

Typically acrylics 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 310) and Resene SpaceCote Low Sheen (see Data Sheet D311) have been specifically designed to overcome these traditional weaknesses. Painting interior glass that is subject externally to the sun's rays may cause underfilm chalking that will result in delamination. For better hiding, Resene Acrylic Undercoat (see Data Sheet D404) tinted to the correct colour may replace one of the topcoats.

Generic Specification				Resene Spec No.	Resene One-Line Specification							
Substrate	Environment	Paint Type	Gloss Level		Surface Prep	1st Coat		2nd Coat		3rd Coat	
Glass etc.	Interior	Waterborne	Gloss	11i 1.1	D802 or D803	WB Smooth S.S.	D47a	Enamacryl Acrylic Undercoat	D309 D404	Enamacryl	D309
Glass etc.	Interior	Waterborne	Semi-Gloss	11i 1.2	D802 or D803	WB Smooth S.S.	D47a	Lustacryl Acrylic Undercoat	D310 D404	Lustacryl	D310
Glass etc.	Interior	Waterborne	Satin	11i 1.3	D802 or D803	WB Smooth S.S.	D47a	Lumbersider Acrylic Undercoat	D34 D404	Lumbersider	D34
Glass etc.	Interior	Waterborne	Low Sheen	11i 1.4ZS	D802 or D803	WB Smooth S.S.	D47a	Zylone Sheen Acrylic Undercoat	D302 D404	Zylone Sheen	D302
Glass etc.	Interior	Waterborne	Low Sheen	11i 1.4SC	D802 or D803	WB Smooth S.S.	D47a	SpaceCote Low Sheen Acrylic Undercoat	D311 D404	SpaceCote Low Sheen	D311
Glass etc.	Interior	Waterborne	Flat	11i 1.5	D802 or D803	WB Smooth S.S.	D47a	Zylone 20 Acrylic Undercoat	D37 D404	Zylone 20	D37
Glass etc.	Interior	Waterborne	Flat	11i 1.5SC	D802 or D803	WB Smooth S.S.	D47a	SpaceCote Flat Acrylic Undercoat	D314 D404	SpaceCote Flat	D314

11i 2 Interior Solventborne

All solventborne finishes yellow somewhat in the absence of light, and exposure to light bleaches out the yellow. Solventborne finishes are generally harder and more cleanable than waterborne finishes making them preferable coatings for interior specification. Painting interior glass that is subject externally to the sun's rays may cause underfilm chalking that will result in delamination. For better hiding, Resene Acrylic Undercoat tinted to the correct colour may replace one of the topcoats.

Generic Specification				Resene Spec No.	Resene One-Line Specification							
Substrate	Environment	Paint Type	Gloss Level		Surface Prep	1st Coat		2nd Coat		3rd Coat	
Glass etc.	Interior	Solventborne	Gloss	11i 2.1	D802 or D803	WB Smooth S.S.	D47a	Acrylic Undercoat	D404	Super Gloss	D32
Glass etc.	Interior	Solventborne	Semi-Gloss	11i 2.2	D802 or D803	WB Smooth S.S.	D47a	Lusta-Glo Acrylic Undercoat	D33 D404	Lusta-Glo	D33
Glass etc.	Interior	Solventborne	Flat	11i 2.5	D802 or D803	WB Smooth S.S.	D47a	Flatcote Acrylic Undercoat	D306 D404	Flatcote	D306

* = Thermoplastic Substrata

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

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