

## Substrate Characteristics

Gypsum plaster is the product of mixing gypsum (calcium sulphate hemihydrate) with water. The gypsum takes up water and sets forming the dihydrate. The set plaster is relatively weak compared to cement renders and may require a penetrating surface conditioner such as Resene Sureseal (see [Data Sheet D42](#)). Gypsum plaster is slowly soluble in water and should not be used in wet areas. Pure gypsum plaster is chemically inert but impurities such as sodium sulphate may cause efflorescence and additives, such as lime putty, may cause the surface to be alkaline. If gypsum is deprived of water before setting, such as thin films over porous surfaces or thin films on a hot day, setting will not take place. A powdery layer will be left on the surface.

Fibrous plaster is cast from moulds normally using a tallow-based release agent; residue of this may cause painting problems. Where tallow residues are suspected, usually on highly glazed areas, clean the surface with Resene Emulsifiable Solvent Cleaner (see [Data Sheet D804](#)) before painting.

Paperfaced plaster is a mat composed mainly of cellulose fibres derived from timber. The fibres may be derived from either a chemical or mechanical pulping process; may be bleached or unbleached; with or without resin additives for wet-strength; and with or without surface treatments such as coatings or machine calendaring. Paper, for the most part, presents an excellent surface for painting and waterborne paints are pre-eminent in this area. They are normally applied direct to paper. There are some areas where the use of an solventborne sealer, such as Resene Sureseal, is advisable.

## Surface Preparation

New Work - see [Surface Preparation D84 and D87](#) for detailed preparation guidelines.

New Work - see [Surface Preparation D85](#) for detailed preparation guidelines for solid plaster and fibrous plaster.

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

## 15i 1 Interior Waterborne

The appropriate level of finish on paperfaced plasterboard wall and ceiling surfaces varies with the final decoration to be applied and may also be dependent on their location in a structure and the type of illumination striking the surface. For critical lighting areas, textured or flat finishes, such as Resene SpaceCote Low Sheen (see [Data Sheet D311](#)), tend to reduce joint photographing. Resene SpaceCote Low Sheen may be used to bring enamel-style toughness to broadwall areas in a low sheen finish without sacrificing durability. Gloss and semi-gloss paints are not generally suitable as they highlight surface defects. Resene Broadwall Surface Prep (see [Data Sheet D807](#)) or Resene Broadwall 3 in 1 (see [Data Sheet D310](#)) must be used to achieve a Level 5 finish. Resene Broadwall 3 in 1 may be used as both a surfacer and sealer in dry areas. Resene Broadwall Acrylic Wallboard Sealer (see [Data Sheet D403](#)) is usually used as the first coat but Resene Sureseal must be used where the paperfaced plasterboard has yellowed due to prolonged exposure to sunlight, in wet areas such as kitchens, bathrooms and laundries and/or where the substrate to be coated is porous or powdery. Resene Waterborne Smooth Surface Sealer (see [Data Sheet D47a](#)) may be used in place of Resene Sureseal on new paperfaced plasterboard in wet areas. Waterborne enamels Resene Enamacryl (see [Data Sheet D309](#)), Resene Lustacryl (see [Data Sheet D310](#)), Resene SpaceCote Low Sheen (see [Data Sheet D311](#)) and Resene SpaceCote Flat (see [Data Sheet D314](#)) may be used in areas traditionally reserved for solventborne enamels with the added benefits of non-yellowing, fast drying and low odour. For better hiding, Resene Acrylic Undercoat (see [Data Sheet D404](#)) tinted to the correct colour may replace one of the topcoats. See [Section 1\(vi\) for Fire Indice Ratings](#).

Generic Specification				Resene Spec No.	Resene One-Line Specification			
Substrate	Environment	Paint Type	Gloss Level		Surface Prep	1st Coat	2nd Coat	3rd Coat
Paperfaced Plaster etc.	Interior	Waterborne	Gloss	<b>15i 1.1L5</b>	D84, D85 D87, D807	NRS: Broadwall D403 WSP: Sureseal D42 NWA:WB Smooth Surface Sealer D47a	Enamacryl D309 Acrylic Undercoat D404	Enamacryl D309
Paperfaced Plaster etc.	Interior	Waterborne	Gloss	<b>15i 1.1L4</b>	D84, D85 D87	NRS: Broadwall D403 WSP: Sureseal D42 NWA:WB Smooth Surface Sealer D47a	Enamacryl D309 Acrylic Undercoat D404	Enamacryl D309
Paperfaced Plaster etc.	Interior	Waterborne	Gloss	<b>15i 1.11L5</b>	D84, D85 D87, D810	NRS: Enamacryl D309 WSP: Sureseal D42 NWA:WB Smooth Surface Sealer D47a	Enamacryl D309 Acrylic Undercoat D404	Enamacryl D309
Paperfaced Plaster etc.	Interior	Waterborne	Semi-Gloss	<b>15i 1.2L5</b>	D84, D85 D87, D807	NRS: Broadwall D403 WSP: Sureseal D42 NWA:WB Smooth Surface Sealer D47a	Lustacryl D310 Acrylic Undercoat D404	Lustacryl D310
Paperfaced Plaster etc.	Interior	Waterborne	Semi-Gloss	<b>15i 1.2L4</b>	D84, D85 D87	NRS: Broadwall D403 WSP: Sureseal D42 NWA:WB Smooth Surface Sealer D47a	Lustacryl D310 Acrylic Undercoat D404	Lustacryl D310
Paperfaced Plaster etc.	Interior	Waterborne	Semi-Gloss	<b>15i 1.21L5</b>	D84, D85 D87, D810	NRS: Lustacryl D310 WSP: Sureseal D42 NWA:WB Smooth Surface Sealer D47a	Lustacryl D310 Acrylic Undercoat D404	Lustacryl D310

## Interior Fibrous Plaster, Paperfaced Plaster and Solid Plaster

## 15i 1 Interior Waterborne: continued

Generic Specification				Resene Spec No.	Resene One-Line Specification						
Substrate	Environment	Paint Type	Gloss Level		Surface Prep	1st Coat	2nd Coat	3rd Coat			
Paperfaced Plaster etc.	Interior	Waterborne	Satin	<b>15i 1.3<sub>L5</sub></b>	D84, D85 D87, D807	NRS: Broadwall WSP: Sureseal	D403 D42	Lumbersider Acrylic Undercoat	D34 D404	Lumbersider	D34
Paperfaced Plaster etc.	Interior	Waterborne	Satin	<b>15i 1.3<sub>L4</sub></b>	D84, D85 D87	NRS: Broadwall WSP: Sureseal	D403 D42	Lumbersider Acrylic Undercoat	D34 D404	Lumbersider	D34
Paperfaced Plaster etc.	Interior	Waterborne	Satin	<b>15i 1.31<sub>L5</sub></b>	D84, D85 D87, D810	NRS: Lumbersider WSP: Sureseal	D34 D42	Lumbersider Acrylic Undercoat	D34 D404	-	Lumbersider D34
Paperfaced Plaster etc.	Interior	Waterborne	Low Sheen	<b>15i 1.4<sup>zs</sup><sub>L5</sub></b>	D84, D85 D87, D807	NRS: Broadwall WSP: Sureseal	D403 D42	Zylone Sheen Acrylic Undercoat	D302 D404	Zylone Sheen	D302
Paperfaced Plaster etc.	Interior	Waterborne	Low Sheen	<b>15i 1.4<sup>zs</sup><sub>L4</sub></b>	D84, D85 D87	NRS: Broadwall WSP: Sureseal	D403 D42	Zylone Sheen Acrylic Undercoat	D302 D404	Zylone Sheen	D302
Paperfaced Plaster etc.	Interior	Waterborne	Low Sheen	<b>15i 1.41<sup>zs</sup><sub>L5</sub></b>	D84, D85 D87, D810	NRS: Zylone Sheen WSP: Sureseal	D302 D42	Zylone Sheen Acrylic Undercoat	D302 D404	-	Zylone Sheen D302
Paperfaced Plaster etc.	Interior	Waterborne	Low Sheen	<b>15i 1.4<sup>sc</sup><sub>L5</sub></b>	D84, D85 D87, D807	NRS: Broadwall WSP: Sureseal NWA: WB Smooth Surface Sealer	D403 D42 D47a	SpaceCote Low Sheen Acrylic Undercoat	D311 D404	SpaceCote Low Sheen	D311
Paperfaced Plaster etc.	Interior	Waterborne	Low Sheen	<b>15i 1.4<sup>sc</sup><sub>L4</sub></b>	D84, D85 D87	NRS: Broadwall WSP: Sureseal NWA: WB Smooth Surface Sealer	D403 D42 D47a	SpaceCote Low Sheen Acrylic Undercoat	D311 D404	SpaceCote Low Sheen	D311
Paperfaced Plaster etc.	Interior	Waterborne	Low Sheen	<b>15i 1.41<sup>sc</sup><sub>L5</sub></b>	D84, D85 D87, D810	NRS: SpaceCote Low Sheen WSP: Sureseal NWA: WB Smooth Surface Sealer	D311 D42 D47a	SpaceCote Low Sheen Acrylic Undercoat	D311 D404	-	SpaceCote Low Sheen D311
Paperfaced Plaster etc.	Interior	Waterborne	Flat/Texture	<b>15i 1.5<sup>tf</sup></b>	D84, D85 D87, D807	NRS: Broadwall WSP: Sureseal	D403 D42	Lumbersider	D34	Sandtex	D71
Paperfaced Plaster etc.	Interior	Waterborne	Flat	<b>15i 1.5<sub>L5</sub></b>	D84, D85 D87, D807	NRS: Broadwall WSP: Sureseal	D403 D42	Zylone 20 Acrylic Undercoat Ceiling Paint Acrylic Undercoat	D37 D404 D305 D404	Zylone 20 Ceiling Paint	D37 D305
Paperfaced Plaster etc.	Interior	Waterborne	Flat	<b>15i 1.5<sub>L4</sub></b>	D84, D85 D87	NRS: Broadwall WSP: Sureseal	D403 D42	Zylone 20 Acrylic Undercoat Ceiling Paint Acrylic Undercoat	D37 D404 D305 D404	Zylone 20 Ceiling Paint	D37 D305
Paperfaced Plaster etc.	Interior	Waterborne	Flat	<b>15i 1.51<sub>L5</sub></b>	D84, D85 D87, D810	NRS: Zylone 20 NRS: Ceiling Paint WSP: Sureseal WSP: Sureseal Ceiling Paint	D37 D305 D42 D42 D305	Zylone 20 Ceiling Paint Zylone 20 Ceiling Paint Acrylic Undercoat Surface Sealer	D37 D305 D37 D305 D404 D47a	- Zylone 20 Ceiling Paint Zylone 20	D37 D305 D305 D305
Paperfaced Plaster etc.	Interior	Waterborne	Flat	<b>15i 1.5<sup>sc</sup><sub>L5</sub></b>	D84, D85 D87, D807	NRS: Broadwall WSP: Sureseal NWA: WB Smooth Surface Sealer	D403 D42 D47a	SpaceCote Flat Acrylic Undercoat	D314 D404	SpaceCote Flat	D314
Paperfaced Plaster etc.	Interior	Waterborne	Flat	<b>15i 1.5<sup>sc</sup><sub>L4</sub></b>	D84, D85 D87	NRS: Broadwall WSP: Sureseal NWA: WB Smooth Surface Sealer	D403 D42 D47a	SpaceCote Flat Acrylic Undercoat	D314 D404	SpaceCote Flat	D314
Paperfaced Plaster etc.	Interior	Waterborne	Flat	<b>15i 1.51<sup>sc</sup><sub>L5</sub></b>	D84, D85 D87, D810	NRS: SpaceCote Flat WSP: Sureseal NWA: WB Smooth Surface Sealer	D314 D42 D47a	SpaceCote Flat Acrylic Undercoat	D314 D404	-	SpaceCote Flat D314

**Key:** L4 = Level 4 L5 = Level 5 NRS = Normal Recommended System NWA = New Wet Area TF = Textured Finish  
WSP = Wet, Stained, Porous or Powdery Area

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minimise the effect of your project on the environment – see [www.resene.co.nz/paintwise.htm](http://www.resene.co.nz/paintwise.htm)

## 15i 2 Interior Solventborne:

The appropriate level of finish on paperfaced plasterboard wall and ceiling surfaces varies with the final decoration to be applied and can also be dependent on their location in a structure and the type of illumination striking the surface. In critical lighting areas, textured or flat finishes tend to reduce joint photographing. Gloss and semi-gloss paints are not generally recommended for Level 5 finishes as they highlight surface defects. Resene Broadwall Surface Prep. or Resene Broadwall 3 in 1 must be used to achieve a Level 5 finish. Resene Broadwall 3 in 1 may be used as both a surfacer and sealer in dry areas. 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
Paperfaced Plaster etc.	Interior	Solventborne	Gloss	<b>15i 2.1L5</b>	D84, D85 D87, D807	Sureseal NWA: WB Smooth Surface Sealer D47a	D42 Acrylic Undercoat D404	Super Gloss D32
Paperfaced Plaster etc.	Interior	Solventborne	Gloss	<b>15i 2.1L4</b>	D84, D85 D87	Sureseal NWA: WB Smooth Surface Sealer D47a	D42 Acrylic Undercoat D404	Super Gloss D32
Paperfaced Plaster etc.	Interior	Solventborne	Gloss	<b>15i 2.11L5</b>	D84, D85 D87, D810	Acrylic Undercoat	D404 Super Gloss D32	–
Paperfaced Plaster etc.	Interior	Solventborne	Semi-Gloss	<b>15i 2.2L5</b>	D84, D85 D87, D807	Sureseal NWA: WB Smooth Surface Sealer D47a	D42 Lusta-Glo D33 Acrylic Undercoat D404	Lusta-Glo D33
Paperfaced Plaster etc.	Interior	Solventborne	Semi-Gloss	<b>15i 2.2L4</b>	D84, D85 D87	Sureseal NWA: WB Smooth Surface Sealer D47a	D42 Lusta-Glo D33 Acrylic Undercoat D404	Lusta-Glo D33
Paperfaced Plaster etc.	Interior	Solventborne	Semi-Gloss	<b>15i 2.21L5</b>	D84, D85 D87, D810	Lusta-Glo Acrylic Undercoat	D33 D404 Lusta-Glo D33	–
Paperfaced Plaster etc.	Interior	Solventborne	Flat	<b>15i 2.5L5</b>	D84, D85 D87, D807	Sureseal NWA: WB Smooth Surface Sealer D47a	D42 Flatcote D306 Acrylic Undercoat D404	Flatcote D306
Paperfaced Plaster etc.	Interior	Solventborne	Flat	<b>15i 2.5L4</b>	D84, D85 D87	Sureseal NWA: WB Smooth Surface Sealer D47a	D42 Flatcote D306 Acrylic Undercoat D404	Flatcote D306
Paperfaced Plaster etc.	Interior	Solventborne	Flat	<b>15i 2.51L5</b>	D84, D85 D87, D810	Flatcote Acrylic Undercoat	D306 D404 Flatcote D306	–

**Key:** NWA = New Wet Area