

Resene X-400

ultra high build barrier membrane

Resene X-400 is a thixotropic ultra high build weathertight membrane and is part of the Resene High Performance Coating systems range, which includes Resene X-200 and Resene X-300E. Designed as a weathertight and an anti-carbonisation membrane. Can be textured using a texturing roller sleeve to give a light to medium rolled texture where surface imperfections in the concrete are to be disguised.

exterior/interior

Typical uses

- All cementitious surfaces
- High rise concrete buildings
- Plaster renders
- Acrylic decking membranes repaints

Vehicle type
Pigmentation
Solvent
Finish
Colour

Physical properties

Pure acrylic
Titanium dioxide, mineral fillers
Water
Semi-gloss
White and colours off white; available in most colours from the Resene Total Colour System in a minimum order size of 200L
1 hour per 100 microns
3 hours per 100 microns
Yes, dependent on surface
Up to 2 sq. metre per litre in one application
100 microns at 5 sq. metres per litre
250 microns at 2 sq. metres per litre
Varies with specification
Very good
Very good
Thermoplastic
Fair
Excellent
Do not thin; clean up with water
c. 18 grams per litre (see [Resene VOC Summary](#))

Dry time (minimum)
Recoat time (minimum)
Primer required
Theoretical coverage
Dry film thickness

Usual no. of coats
Abrasion resistance
Chemical resistance
Heat resistance
Solvent resistance
Durability
Thinning and clean up
VOC

Performance and limitations

Performance

1. Resene X-400 is designed for spray application and may be applied at very high thicknesses without sagging or film cracking. However, it is better trade and specifying practice to build up the required thickness in more than one coat to improve uniformity.
2. Superior void and crack filling properties.
3. Excellent durability. Requires no additional 'weathering' coats, except when used for the repaint of acrylic decking membranes.
4. Can be overcoated with Resene Clearcoat UVS (see [Data Sheet D502](#)) for improved colour retention of colours subject to colour fade or Resene AquaShield (see [Data Sheet D601](#)) for a Mediterranean finish.
5. Spray application recommended for large areas
6. An Environmental Choice approved product.

Limitations

1. Old, weathered concrete requires surface conditioning with Resene Sureseal (see [Data Sheet D42](#)).
2. Do not apply at temperatures below 3°C or when it is liable to drop below 3°C during the drying period. Drying rate is dependent upon applied wet film thickness.
3. Additional coats may be required when application to achieve a textured finish to ensure barrier properties are achieved.
4. Roller application to smooth surfaces will require multiple coats to achieve specified dry film thicknesses.

Please ensure the current Data Sheet and Safety Data Sheet are consulted prior to specification or application of Resene products. View Data Sheets online at www.resene.com/datasheets. If in doubt contact Resene.



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Surface preparation

Cracked surfaces

Seal cracks with Resene Sureseal (see [Data Sheet D42](#)). Brush Resene X-400 into and across cracks up to 1mm. For cracks from 1 and up to 2mm fill with multiple brush coats of Resene Brushable Crack Filler (see [Data Sheet D811](#)) by brushing into and across the crack. Use a specialist paintable sealant for larger cracks.

New cementitious surfaces

Clean down thoroughly to remove all dirt, dust and loose material. Ensure surface is free from oil, grease, form release and curing agents. For tilt slab and in-situ concrete off formwork ensure the surface is free from oil, grease, release and curing agents. Apply a full coat of Resene ConcreteSeal 3 in 1 (see [Data Sheet D409](#)).

Old cementitious surfaces

Treat areas of moss and mould with Resene Moss & Mould Killer (see [Data Sheet D80](#)). Waterblasting at (3000 psi) is the best surface preparation method prior to painting weathered cementitious surfaces. If waterblasting is not possible, remove all loose powdery material by thorough wire brushing. Allow to dry and apply one coat of Resene Sureseal (see [Data Sheet D42](#)).

Repaints

Contact Resene Technical Services or your nearest Resene representative.

Sanding dust from old lead or chromate based paints or old building materials containing asbestos may be injurious to the health if inhaled or ingested. Seek expert advice if the presence of these materials is suspected.

Application

Airless spray

Use a LTX 523 tip and a unit such as a Graco 795 capable of spraying more than 2 litres per minute. Can be applied up to a maximum wet film thickness of 500 microns. Application under cold conditions will affect sag resistance and rate of drying.

Roller

Masonry: PAL No.2 sleeve, typical application rates 3-5 square metres per litre. A minimum of two rolled coats will be required to achieve most specified dry film thicknesses. Surface texture can be reduced by back rolling with a PAL No.4 sleeve.

Concrete: PAL No.15 sleeve (Hi-Solids sleeve). Roller application will require multiple coats to achieve specified dry film thicknesses and will also give a slightly textured surface. Spray application is recommended to achieve high film builds and a smooth finish.

Texturing: Apply two coats using a PAL Blacktex roller sleeve; typical application rate is 2-3 square metres per litre per coat. Rates will vary with substrate roughness and applicator; we recommend a sample area is requested and agreed before commencing.

Brush

Brush application only suitable for small areas or for stripe coating cracks.

Concrete blocks

Due to regional variations in concrete block standards, two coats may be insufficient to produce a weathertight membrane. Weathertightness can only be assured when all voids are filled, therefore three coats over block is a safer specification. Brush or roller application is preferred over block and essential for at least the first coat. A minimum dry film thickness of 180 microns is required to achieve weathertightness in accordance with CCANZ CP01 2014.

Precautions

1. Do not thin.
2. Ensure correct pre-treatment is used.
3. Resene X-400 may be used to produce a variety of textures depending on application technique. An agreed standard sample should be produced before starting a contract and referred to during the contract.



X-400 SDS

Please ensure the current Data Sheet is consulted prior to specification or application of Resene products. View Data Sheets online at www.resene.com/datasheets. If the surface you propose to coat is not referred to by this Data Sheet, please contact Resene for clarification.

In Australia
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the paint the professionals use

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