

Resene AquaShield

mineral effect

Resene AquaShield is a high mineral content super-hydrophobic, water repellent coating for application on most porous building materials to impart watershedding properties.

Combines the water repellent properties of silicones with a special surface microstructure considerably reducing the contact area for water and dirt. The result: dirt particles adhere loosely and are more easily carried away by raindrops, leaving a dry and attractive facade.

Ideal for highly stressed weather-exposed facades. Made to the original Deutsches Patentschrift 1284007.

exterior

Typical uses

- Brick
- Concrete block
- Fibrous cement
- Natural stone
- Poured concrete
- Stucco
- Tilt slab

Please ensure the current Data Sheet and Safety Data Sheet are consulted prior to specification or application of product. If in doubt contact Resene.

Vehicle type	Silicone emulsion
Pigmentation	Titanium dioxide/crushed quartz
Solvent	Water
Finish	Flat
Colour	Selection of white and colours off-white from the Resene Total Colour System
Dry time (minimum)	45 minutes
Recoat time (minimum)	2 hours
Primer required	Yes, dependent on surface
Theoretical coverage	12.5 sq. metre per litre
Dry film thickness	35 microns at 12.5 sq. metres per litre
Usual no. of coats	2
Abrasion resistance	Fair, abraded surfaces have reduced water repellency
Chemical resistance	Fair
Heat resistance	Good
Solvent resistance	Good
Durability	Excellent
Clean up	Water
VOC	7 grams per litre (see Resene VOC Summary)

Physical properties

Performance

Performance and limitations

1. Very high water repellent properties.
2. Excellent weather resistance.
3. Allows the substrate to breathe.
4. Improves fungal resistance of coated surface.
5. Attractive mineral flat appearance.
6. May be applied over a wide range of temperatures.
7. Compatible with a wide range of coatings - may be applied over most existing coatings and may be recoated with most coatings.

Limitations

1. Drying is slowed by low temperatures and high humidity.
2. Product properties are affected by high levels of tinter, therefore only a limited range of colours are offered.
3. Hydrophobicity, especially of tinted product, increases with time. Requires one month of direct weathering to achieve full hydrophobicity.
4. Colours will lighten with exposure. Care must be taken when touching up.
5. Avoid excessive film builds as it changes the surface microstructure and water repellency.

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Surface preparation

Clean down thoroughly to remove all dirt, dust and loose material. Ensure surface is free from oil, mould and release agents.

If moss and mould are present, treat with Resene Moss & Mould Killer (see [Data Sheet D80](#)). Waterblasting at 21,000 kps (3000 psi) is the best surface preparation method prior to painting weathered cementitious surfaces.

Pre-treat porous substrates with Resene Aquapel (see [Data Sheet D65](#)) to maximise water repellency and breathability properties. Other primers and sealers can be used in conjunction with Resene AquaShield but water repellency and breathability properties will be impaired.

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

Stir thoroughly before use. Apply by brush, roller or airless spray. Recoat after two hours under normal conditions.

Flat finishes tend to look muddier than higher gloss finishes. In all cases, a standard panel should first be prepared by the applicator and the finish and colour approved by clients/specifiers before starting work.

Precautions

1. Ensure correct primer or sealer is used.
2. Maximum water and dirt resistance will be achieved when the coating has fully cured. Full cure takes approximately one month but will be accelerated by weathering and elevated temperatures.
3. Exposure to weathering is required to achieve maximum water repellency.

Please ensure the current Data Sheet is consulted prior to specification or application of Resene products. If the surface you propose to coat is not referred to by this Data Sheet, please contact Resene for clarification.

In Australia
PO Box 785, Ashmore City, Queensland 4214
Call 1800 738 383, visit www.resene.com.au
or email advice@resene.com.au

Resene
the paint the professionals use

In New Zealand
PO Box 38242, Wellington Mail Centre, Lower Hutt 5045
Call 0800 RESENE (737 363), visit www.resene.co.nz
or email advice@resene.co.nz