

Resene AquaShield CoolColour™ 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.

Resene CoolColour technology performs optimally on dark colours that are the most prone to heat build-up.

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
Pigmentation
Solvent
Finish
Colour

Physical properties

Silicone emulsion
Titanium dioxide/crushed quartz
Water
Flat
Selected colours 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](#))

Performance

Performance and limitations

1. Reflects heat improving the life of the paint finish and substrate and improving interior conditions inside the painted structure.
2. Very high water repellent properties.
3. Excellent weather resistance.
4. Allows the substrate to breathe.
5. Improves fungal resistance of coated surface.
6. Attractive mineral flat appearance.
7. May be applied over a wide range of temperatures.
8. Compatible with a wide range of coatings - may be applied over most existing coatings and may be recoated with most coatings.
9. An Environmental Choice and Good Environmental Choice approved product.

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 may 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.

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