

Resene Aquapoxy

waterborne epoxy

Resene Aquapoxy is a two pack low VOC waterborne epoxy. Available in gloss or semi-gloss. The cured film is non-yellowing with high surface hardness and excellent flexibility. It exhibits excellent adhesion and water resistance, and is tolerant of application over damp surfaces. Its excellent solvent resistance makes it very resistant to graffiti. Self-priming over concrete, plaster and fibre cement substrates.

The chemical resistance is similar to conventional solventborne epoxies.

interior

Typical uses

- Concrete/plaster
- Fibre cement
- Maintenance/repaints
- Primed steel

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.

Physical properties

Vehicle type	Two component epoxy
Hardener	Epoxy resin
Pigmentation	Titanium dioxide
Solvent	Water
Pot life	3 hours at 21°C; 6 hours at 10°C
Mix ratio	1 part base: 1 part hardener by volume
Finish	Semi-gloss, gloss
Colour	White and a limited range of chemically resistant pastel colours
Dry time (minimum)	Semi-gloss tack free: 1 hour at 21°C; 3 hours at 10°C. Gloss tack free: 3 hours at 21°C; 5 hours at 10°C.
Recoat time (minimum)	Minimum 4 hours at 21°C; 6 hours at 10°C. Maximum 5 days.
Primer required	Yes – over steel
Theoretical coverage	10 sq. metres per litre (44 microns DFT)
Recommended DFT	130 microns (total)
Usual no. of coats	3 (brush/roller)
Abrasion resistance	Excellent
Chemical resistance	Alkalis – excellent; acids – fair (when fully cured)
Solvent resistance	Excellent (when fully cured)
Durability	Excellent – poor (see Limitations)
Thinning and clean up	Water
VOC	66 grams per litre mixed

Performance

Performance and limitations

1. Brushing and rolling properties similar to single pack waterborne paints.
2. Tolerant of application over damp surfaces.
3. Quick tack free and recoat times giving the potential for multiple coats to be applied in a single day.
4. High surface hardness with excellent resistance to abrasion.
5. Excellent resistance to chemicals, solvents and water.
6. Tenaciously adheres to a wide range of surfaces.
7. Can be steam cleaned or power washed.
8. Resene Aquapoxy is readily available in pastel tones tintable from white. Stronger colours are available in 200 litre batch sizes.

Limitations

1. Application not recommended at temperatures below 10°C or above a R.H of 85%.
2. Recommended for interior use; will chalk when continuously exposed to sunlight.
3. Will discolour when exposed to hypochlorite (bleach containing) solutions.
4. Mixed product will remain liquid well past usable pot life. **Do not apply mixed product beyond stated pot life for a given temperature.**
5. Do not apply over existing thermoplastic paints.

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Surface preparation

Concrete

Degrease according to SSPC SP1 solvent cleaning. Leave new concrete to cure for a minimum of 28 days before painting. Concrete floors must be profiled by captive blasting, light abrasive blasting, diamond grinding, or acid etching (see [Data Sheet D83](#)). Prepared surface must have a uniform surface texture exposing the aggregate resembling 180 grit sandpaper. If this is not achieved repeat profiling method until the required surface texture is achieved.

Concrete must have the required profile and be free from oil, grease, dirt, and form oils/release agents. Concrete surfaces cured with curing compounds must be prepared by diamond grinding, captive shot or light abrasive blasting. Acid etching is not acceptable as this procedure will not normally remove these compounds. After profiling using one of the recommended methods, fill holes, voids, etc by application of Resene Epox-O-Bond (see [Data Sheet D808](#)). Seal with Resene Aquapoxy thinned up to 10%.

Fibre cement

Clean down to remove all dirt, dust and loose material. Ensure surface is free from oil, grease and mould. Seal with Resene Aquapoxy Gloss thinned 10%. Allow to cure for 24 hours then lightly sand surface to remove raised fibres.

Maintenance, repaints

Resene Aquapoxy may be applied as a maintenance coat over aged enamel and two pack epoxy systems. Consult manufacturer for guidance on surface preparation methods when using Resene Aquapoxy for maintenance painting. A test patch is always recommended to check adhesion and compatibility.

Steel

Degrease according to SSPC SP1 solvent cleaning. Remove all weld spatter and grind sharp edges and weld seams. For best results, blast clean to SSPC SP10 (Sa 2.5) minimum and prime with a Resene Armourcote epoxy basecoat such as Resene Armourcote 220 (see [Data Sheet RA34](#)) or Armourcote 510 (see [Data Sheet RA40](#)). Where increased corrosion protection is required use Resene ArmourZinc 120 (see [Data Sheet RA22](#)).

Residues and dust from old paint systems containing lead or chromate and dust from concrete preparation may be dangerous to the health of the operator and the environment. Ensure approved procedures are put in place to safeguard against this.

Application

Application

Apply by brush or PAL Hi-Solids roller. Spray application can be used for flooring applications (does not apply to product containing Resene SRG Grit). It can be spray applied to vertical surfaces but the recommended dry film thickness cannot be achieved wet on wet.

Mixing

Resene Aquapoxy is supplied as a base and a hardener. TO ENSURE THE CORRECT MIX RATIOS ARE ACHIEVED MIX FULL UNITS. To one part by volume of base add one part by volume of hardener. Mix these thoroughly either by hand or by power tool until they are perfectly homogeneous. Mixed product will remain liquid well past pot life. DO NOT APPLY MIXED PRODUCT BEYOND STATED POT LIFE AT A GIVEN TEMPERATURE.

Ensure painted areas are well ventilated post application. Forced air or extraction systems are recommended. DO NOT USE gas or fuel burning heaters if heating is to be used as the fuel combustion process adds to the humidity in the atmosphere.

Safety precautions

Consult Safety Data Sheet for this product prior to use. Users should ensure that they are familiar with all aspects concerning safe application of this product. IF IN DOUBT, DO NOT USE THIS PRODUCT.

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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Resene
the paint the professionals use

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