



Resene ArmourX Adhesion Etch Primer

Single pack etch primer/pretreatment

Interior/Exterior

Technical Data Sheet RA31 V1-1-26

This data sheet replaces
all previous issues

Resene ArmourX Adhesion Etch Primer is a primer with good, abrasion resistance, and overcoating features. It is chromate free, versatile and suited to many light industrial and marine applications.

Typical uses

As a pre-treatment, blast primer, or holding primer on:

- Aluminium metal spray
- Aluminium sheet and extrusions
- Copper and its alloys
- Galvanised steel
- Old, varnished surfaces
- Smooth cementitious surfaces, including flooring
- Steel pipes and plate
- Structural steel and zinc metal spray

Performance

- Rapid dry and overcoating times.
- Excellent adhesion over a variety of metal surfaces.
- Useful over several plastics and laminated surfaces.
- Compatible with most topcoats

Limitations

- Resene ArmourX Adhesion Etch Primer is not designed to give long term exterior protection without overcoating. When used in a severe marine environment it should be overcoated within a week. Durability of up to three months can be expected in mild marine conditions or better.
 - Drying times of alkyd and solventborne paints may be extended when applied directly over Resene ArmourX Adhesion Etch Primer.
 - Not suitable for direct overcoating with Resene ArmourX I.F. 500 Series Topcoats (Refer to label instructions and [Data Sheet RA81A](#)).
 - Not recommended for use in any immersed environment.
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Physical properties

Vehicle type	Vinyl Butyral/Phenolic
Pigmentation	Inhibitive (chromate free)
Solvent	Alcohol/aromatic/ether
Finish	Satin
Colour	Grey, Off-White and Black
Abrasion Resistance	Good
Heat Resistance	80 °C (continuous) 100°C (non-continuous)
VOC level	752 grams per litre

Surface preparation

This product may be used to paint a wide variety of surfaces. If the surface you propose to paint is unsound or not referred to in this document, refer to our website for comprehensive recommendations, alternatively contact your local Resene ColorShop or reseller for advice.

General

All surfaces must be sound and free of oil, grease, dirt, loose and flaking paint, moisture and other foreign substances prior to application of this product. If moss and mould are present, treat with Resene Moss & Mould Killer (Refer to label instructions and [Data Sheet D80](#)). Clean and/or degrease with Resene Heavy Duty Paint Prep and Oil Remover (Refer to label instructions and [Data Sheet D816](#)) according to SSPC SP1 solvent cleaning.

Cementitious surfaces

Surfaces must be free of laitance, form release agents, curing membranes, oil and grease.

Non-ferrous metals

Typically, surfaces are lightly abraded with either a Scotchbrite® pad or P220-320 sandpaper. Ensure surface is free of dust, dirt and debris. Prime the prepared substrate as soon as possible before oxidation occurs.

Steel

For best results, abrasive blast in accordance with to SSPC-SP 10 (AS 1627.4 Sa 2½).

Satisfactory results will be obtained by abrasive blast to SSPC-SP 6 (AS 1627.4 Sa 2).

For smaller areas or less critical exposure, power tool cleaning to SSPC-SP 3 (AS 1627.2 St 3) or hand tool cleaning to SSPC-SP 2 (AS1627.2 St 2) will provide an acceptable surface for coating.

Galvanised steel

It is essential that all traces of dichromate (or similar) quench passivation are removed. This is often best accomplished with a light sweep abrasive blast or very thorough scouring with a synthetic scour pad or mechanical sander. For electro-deposition zincs, abrasion with a Scotchbrite® pad or P220-320 sandpaper is required to create a light surface profile. Do not apply over dichromate passivation layer.

Before applying any coating ensure the surface is clean and dry. Refer also to Resene Surface Information and Preparation Data Sheet (SIPDS) for [Concrete](#) and [Metal](#) as appropriate.



SIPDS No. 3
Concrete



SIPDS No. 4
Metal

Application

General: Resene ArmourX Adhesion Etch Primer can be applied by brush, roller or spray.

Air Spray: Conventional Air Spray, suction cup set-up gives greater control than that using pressure pot equipment. 1.0mm to 1.4mm Fluid Tip with appropriate Air Cap.

Airless Spray: Not recommended

- Thoroughly mix before use.

Typical coverage	5 square metres per litre per coat at 20 microns
Dry film thickness	15 - 20 microns (do not exceed 30 microns)
Dry time to handle (minimum)	20 minutes at 20°C. Drying is affected by low temperatures and high humidity.
Recoat/topcoat time (minimum)	5 hours at 20°C
Usual no. of coats	1 coat
Overcoating	Suitable for overcoating with Resene solventborne alkyd enamels, epoxies and polyurethanes.

Thinning

This product is supplied at application consistency; however, some thinning may be required depending upon the type of surface to be painted, and the prevailing weather conditions. Up to 10% thinning with Resene No.4 thinner or Altex Thinning Solvent No.155 may be added without affecting the performance of the coating.

Clean Up and Product Responsibility

Clean up with Resene brush cleaner or Altex Thinning Solvent No.155

See online for guidance on [cleanup and disposal](#) without polluting the environment.

Return any unwanted product or packaging to the [PaintWise recycling service](#) (NZ) or [Paintback](#) (AU).

Precautions

1. Ensure the correct primer and/or sealer is used.
2. Ensure the temperature of the substrate is at least 3°C above the "Dew Point". The "Dew Point" requirement can be presumed to be satisfied if a thin clearly defined film of water applied to the cleaned surface with a damp cloth evaporates within 15 minutes.
3. It is very important for the safety of the applicator and the proper performance of the applied coating that good ventilation be provided to all portions of the enclosed area. It is equally important to bring into the enclosed area dry fresh air to remove all solvent vapours. Since solvent vapours are heavier than air, ventilation ducts should reach to the lowest portions of the enclosed areas as well as into any structural pockets. Ventilation should be provided throughout the cure period to ensure all of the solvents are removed from the coating.
4. This product is flammable. Keep away from heat, sparks and open flame. Use with adequate ventilation. May cause eye and skin irritation. Do not breathe vapour or spray.
5. All sanding dusts can be harmful. Always wear appropriate protection.
6. Seek expert advice if working with lead, chromate or asbestos based materials or surfaces.

Read the current Safety Data Sheet before specifying or using Resene products. Resene Technical Data Sheets are updated from time to time. This Technical Data Sheet is provided as a guide for this product and may differ from the most recent version. Please discuss your project with your Resene Technical Representative, local Resene ColorShop team or reseller to ensure you have the right products to give you the best quality finish for your specific project.

Safety Data Sheet (SDS)

Read the Safety Data Sheet before use, visit www.resene.com/datasheets.