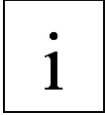


Always use correct Personal Protective Equipment

ENVIROSHIELD

Description



A fast drying 1K clear coating for Aluminium alloy surfaces, allowing the original “as prepared” metal look to be preserved in marine and many industrial exposures; with long term corrosion protection from UV, salt water and acid rain. Ideal for machinery exposed to weather - protection from corrosion, oxidation and discolouration.

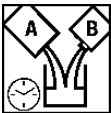
Features:

- Single pack – just stir before use
- Ready for use – no thinning required
- Resistant to petrol & diesel spills , unaffected by most Glass cleaners
- UV resistant – the UV resistance of the cured film is enhanced by selected HALS (hindered amine light stabilizers) which prevents UV-induced free radical degradation of the polymer system.
- Non mirror-like gloss reduces surface defect highlighting.
- Tough flexible film does not embrittle with age.
- Hygienic – the cured film is suitable for use in food contact areas.
- Fast dry – dust free in minutes
- Cost effective
- Repairable
- Developed and manufactured in New Zealand for New Zealand conditions.

Extensively tested in exterior industrial and marine atmospheric exposure and for many thousands of hours in controlled conditions of accelerated weathering to the following standard test methods:

- AS/NZS 1580.483.2:1994 – UV & 100% humidity cycling (QUV cabinet)
- ASTM G85.A5 – Acidified salt fog & drying cycles Q-Fog Prohesion Cycle.

Products



Product Type:	Clear HALS reinforced synthetic polymer system
Colour:	
Pot Life:	N/A – single package**
Shelf life:	12 months minimum in original container**
Induction Time:	5 Minutes
Density:	0.9 kg per litre
Recommended DFT:	25-35 microns DFT /coat
Theoretical Coverage:	8m ² /L @ 40 Microns DFT / spray equipment dependant.
Storage:	Store under cool dry conditions in a sealed container

Note**:

It is recommended that Enviroshield be stored in, and used from, solvent resistant plastic containers. Do NOT store or use for prolonged periods in steel or tin containers as this may result in yellowing of the liquid and cured coating material.

No warranty either expressed or implied is made by RALI in this document, which is a technical data information sheet. The description of the product and its properties is for the sole purpose of identifying the product and does not constitute a warranty that the product or its properties shall conform to that description, nor is the description of the product and its properties a warranty by RALI that the goods are suitable for a particular purpose. Do not apply paint if relative humidity is above 85% or temperature is within 3 deg C of Dew Point being the MPT or Minimum Paint Temperature.

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Properties



VOC:

Volume Solids:

Recoat-ability:

Temperature

Resistance: 80°C dry

Recommended film thickness: 10-20 microns

Est. Practical

Coverage: 1-12 metre² / litre

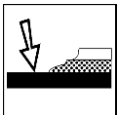
Dry Time @ 20°C*:

Touch dry	20 minutes
Hard dry	12 hours
Dry to service	48 hours

Note*:

Vinyl stickers or decals should not be applied to an Enviroshield coated surface until a cure time of a min of 72 hours at 20°C (or equivalent time/temperature) has elapsed.

Substrates



Enviroshield is a clear coating based on a unique proprietary blend of high molecular weight polymers and epoxide resin.

Enviroshield is specifically formulated for application to aluminium alloy surfaces to allow the original 'as prepared' metal look to be preserved in marine and many industrial exposures.

Recommended for:

- Above water surfaces of aluminium pleasure craft
- As a clear to reduce tarnishing of many common ornamental metals – cuts down repeated cleaning and polishing
- To reduce the effects of chloride attack on stainless steel marine fittings

Limitation of use: Enviroshield is NOT recommended for application over existing paint coatings. When applied over metal surfaces other than correctly prepared aluminium alloys (see overleaf for preparation) it is recommended the user apply a test patch to assess the suitability of Enviroshield for that surface.

Surface Preparation



The key principle to success with this product is a thoroughly degreased substrate. Three methods have been tested and approved for applicators to use; being Abraded Substrate, Acid Washed Substrate, or a combination of both:-

Degreasing & General Cleaning Information

It is essential to degrease the substrate with RALI Wax & Grease Remover using the wipe on wipe off method changing clean cloths regularly; this should be done before abrading to avoid the risk of contaminants being "driven" into the profile. This could cause delamination of the coating, or discolouration of the aluminium. The advantages of abrading include the hiding of any imperfections in the aluminium such as scratches and weld marks, and the removal of any "barbs" caused by scratching. The acid washed substrate will provide an even grey/white finish, however any weld marks, scratches or

Surface

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Always use correct Personal Protective Equipment**Preparation
(cont)**

weld splatter will show up through the film. It is therefore recommended that only clean, unblemished surfaces are acid washed as a stand-alone preparation. Aluminium will start to oxidise within hours of cleaning, and the oxidised metal will compromise adhesion of the coating. No matter what the preparation method it is important to ensure that coating application is not delayed. If the size of the project requires more than one day preparing, then we strongly recommend staging the preparation and coating phases so each stage can be completed in the same working day.

Abrasion Technique

Wash the aluminium down with RALI Break as per TDS. Scrub on with a broom or brush; wash off with high volumes of fresh water followed by dry off. Sand the aluminium with 120-280 grit non stearate sandpaper using an orbital type sander. Re-sand with a finer grade, if required, or a Scotchbrite™ disc. Blow down with clean compressed air. Apply the Enviroshield within TWO hours.

Acid Wash Technique

Dilute Altex Aluminium Etch Whitener" 50% v/v with fresh water -do not use bore or well water unless dissolved minerals are within the recognised guidelines for potable water supply. Apply to the aluminium with a garden pressure sprayer, or similar, to achieve a full even film over the entire area. The acid will foam and turn white. For each area under treatment work from the bottom or lower side upwards - protect adjacent areas from acid spill. Leave to react for a minimum of 10 minutes, but ensure that the acid does not dry on the surface. Use high volumes of water to THOROUGHLY wash off all the acid. We do NOT recommend the use of baking soda (sodium bicarbonate) to neutralise the acid, as residues may get trapped in the more porous, welded spots in the aluminium. Preferably force dry with clean rags and clean compressed air to dry out pockets so no water drips or runs create staining.

Note: Some Alloys require two applications of whitener depending on the grade of alloy; try a small test area first.

When totally dry, and within the same working day, apply the Enviroshield.

Combination Technique

Use both the above techniques in order; first abrading and then acid washing.

Spray**Equipment:**

Compliant / Conventional Suction and Gravity feed

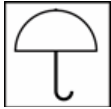
Tip size: 1.2 - 1.4 mm

Air pressure: 275-380 kPa (40-55 psi)

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Always use correct Personal Protective Equipment**Health & Safety**

For detailed information refer to Safety Data Sheet (SDS). Enviroshield is highly flammable and gives off flammable vapours. Keep away from heat, sparks and open flame. Use with adequate ventilation. May cause eye and skin irritation. Do not breathe vapour or spray. Wear suitable protective clothing such as gloves and eye and face protection.

Transport & Storage

Sizes: 1L, 4L
Dangerous Goods: 3
UN: 1263
Hazchem: 3(Y)E
Packing Group: II
Shipment name: Flammable Liquid
Flash point:

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