

# Resene Armourcote 221 brushing epoxy primer

Resene Armourcote 221 combines the performance properties of a quality inhibitive epoxy primer with the convenience of brush or roller application. Suitable for priming both ferrous and non-ferrous metals that are to be finished with brushing two component polyurethanes, such as Resene Uracryl 400 Series topcoats. Primer for new or maintenance work.

## Typical uses

- Aluminium
- Galvanised steel
- Repaints
- Structural steel
- Zincalume

<b>Vehicle type</b>	Two component epoxy
<b>Hardener</b>	Polyamide
<b>Pigmentation</b>	Zinc phosphate
<b>Solvent</b>	Aromatic/glycol ether
<b>Pot life</b>	8 hours at 21°C
<b>Mix ratio</b>	4:1 (by volume)
<b>Finish</b>	Low gloss
<b>Colour</b>	Pale green
<b>Dry time (minimum)</b>	Touch dry: 3.5 hours at 25°C; 5 hours at 10°C
<b>Recoat time (minimum)</b>	6 hours at 25°C; 11 hours at 10°C
<b>Theoretical coverage</b>	Maximum: 2 weeks (Resene Uracryl 400 Series) 11 sq. metres per litre (50 microns DFT) 7.3 sq. metres per litre (75 microns DFT)
<b>Volume solids</b>	55%
<b>Recommended DFT</b>	50-75 microns per coat
<b>Usual no. of coats</b>	1-2
<b>Abrasion resistance</b>	Very good
<b>Chemical resistance</b>	Excellent when suitably topcoated
<b>Heat resistance</b>	Up to 90°C (dry, continuous)
<b>Solvent resistance</b>	Excellent when suitably topcoated
<b>Durability</b>	Excellent when topcoated
<b>Thinning and clean up</b>	Resene Thinner No.8

## Physical properties

## Performance

## Performance and limitations

1. High performance epoxy primer for brush application.
2. Suitable for both new and maintenance work.
3. Brushing primer for use prior to application of Resene Uracryl 400 Series polyurethane brushing finishes.
4. Combination of Resene Armourcote 221 and a Resene Uracryl 400 Series finish allows the application of high performance coating systems in situations where restrictions of spray application apply.
5. Good low temperature cure characteristics.

## Limitations

1. Not designed to give long-term protection in exterior situations without topcoating.
2. Drying and curing times are proportionally shorter at higher temperatures and longer at lower temperatures.
3. Consult manufacturer for topcoat recommendations if an alternative to a Resene Uracryl 400 Series finish is desired.

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## Surface preparation

Coating performance is, in general, proportional to the degree of surface preparation.

### New aluminium, galvanised steel, Zincalume

Remove oil and grease with Resene Roof Wash and Paint Cleaner (see [Data Sheet D88](#)) or Resene Emulsifiable Solvent Cleaner (see [Data Sheet D804](#)). Slightly roughen surface by light sanding or alternatively lightly blast with fine non-metallic abrasive. Surface must be clean, dry and free from all contaminants including salt deposits.

### New steel

Degrease according to SSPC SP1 solvent cleaning. Round off rough welds and sharp edges and remove weld spatter and flux.

Abrasive blast clean in accordance with SSPC SP6 (Sa 2) minimum. For total immersion service, blast clean in accordance with SSPC SP5 (Sa 3). Blast to achieve a 25-50 micron anchor profile. If profile is greater, additional film thickness is required for equivalent protection. Remove abrasive residue and dust from surface.

### Repaints

Ensure all surfaces to be painted are dry and free from oil, grease, dust, mould, lichen, corrosion products and loose or flaking paint. Areas where flaking paint has been removed must be feathered back to a sound edge. In some cases existing sound paint will need to be lightly sanded to provide a mechanical key for the new coating system. Ensure that the existing paint system is compatible with the primer and topcoat system. A test area of the coating system applied to a prepared area is recommended. Leave the applied paint system to cure for at least 48 hours after application of the final coat before adhesion testing. Spot prime all bare areas with Resene Armourcote 221 and topcoat in accordance with recommended recoat times for primer and finish coats.

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

**Contact manufacturer for specific recommendations if in doubt regarding preparation or recoating in maintenance situations.**

## Application

### Mixing

Stir contents of each container separately using an explosion-proof mixer. Add total contents of hardener to total contents of base. Power mix for 5 minutes and allow to stand 5-15 minutes before applying.

### Thinning

Thin only to improve workability with Resene Thinner No.8. Adjust application rate if thinning to ensure specified dry film thickness is achieved.

### Application

Brush, roller (solvent resistant). When brushing or rolling work in a continuous direction and immediately lay off with a brush if bubbles persist.

## 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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