

# Resene Uracryl 402

urethane acrylic  
semi-gloss finish

Resene Uracryl 402 is a unique high performance two component finish coat with excellent resistance to abrasion, moisture, petroleum solvents and mineral and vegetable oil. The most unusual feature of Resene Uracryl 402 is that, unlike most other classes of high performance coatings, it looks as good as it protects. The sophisticated combination of aliphatic urethanes and urethane reactive acrylic resins gives a system unsurpassed for durability and colour retention.

## exterior/interior

### Typical uses

As a long-life semi-gloss topcoat for use over a wide variety of materials where colour retention is required together with excellent durability and very good chemical resistance.

Marine environments, aluminium, anti-graffiti, chemical plants, concrete wall surfaces, dairy factories, fibre cement, food processing plants, furniture, G.R.C. panels, hotel and motel rooms, meat works, office blocks, previously painted surfaces, pulp and paper mills, roofing, structural steel, tank farms.

*Please ensure the current Data Sheet and Safety Data Sheet are consulted prior to specification or application of product. If in doubt contact Resene.*

### Physical properties

<b>Vehicle type</b>	Urethane reactive acrylic
<b>Hardener</b>	Aliphatic urethane
<b>Pigmentation</b>	Light fast chemically resistant types
<b>Solvent</b>	Aromatic, ester
<b>Pot life</b>	3-4 hours at 18°C
<b>Mix ratio</b>	3 parts base: 1 part hardener (by volume)
<b>Finish</b>	Semi-gloss
<b>Colour</b>	Clear, white, selected BS2660, BS5252, Resene Total Colour System and Resene white colours
<b>Dry time (minimum)</b>	1.5 hours tack free at 18°C
<b>Recoat time (minimum)</b>	Brush/roller: 12 hours at 18°C
<b>Primer required</b>	Yes, dependent on substrate
<b>Theoretical coverage</b>	10 sq. metres per litre (50 microns DFT)
<b>Recommended DFT</b>	50 microns per coat
<b>Usual no. of coats</b>	Pigmented systems 1-2, clear systems 3-4
<b>Abrasion resistance</b>	Excellent
<b>Chemical resistance</b>	Very good
<b>Heat resistance</b>	Very good
<b>Solvent resistance</b>	Very good
<b>Toxicity</b>	Hardener and mixed product contain small amounts of monomeric di-isocyanate
<b>Durability</b>	Excellent
<b>Thinning and clean up</b>	Thinner No.8 (brush/roller application) Thinner No.7A (spray application)
<b>Pack size</b>	1 and 4 litre composites

### Performance

### Performance and limitations

1. Enables use of high performance urethanes when spray application is difficult or undesirable.
2. Fast drying.
3. Positive curing even at low temperatures.
4. Semi-gloss topcoat over epoxy coatings where a low gloss finish and colour retention is paramount.
5. Acrylic modification imparts ready self recoating with minimal preparation.

### Limitations

1. Not recommended as a tank lining.
2. In early stage of curing, film may be susceptible to mechanical damage.
3. Not recommended for direct application to zinc primers, such as inorganic zinc silicates.
4. Not recommended as a clear waterproofing system for concrete block and honed concrete block construction.

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## Surface preparation

### Concrete

Leave new concrete to cure for a minimum of 28 days before painting. Surfaces shall be free of laitance, form release agents, curing agents, oil, grease and other penetrating contaminants. Concrete floors must be profiled by captive blasting, abrasive blasting, diamond grinding, or acid etching (see [Data Sheet D83](#)). Profiling should produce a profile similar to 180 grit sandpaper. If this is not achieved, repeat the profiling process. After profiling fill all small holes or voids by application of Resene Epox-O-Bond (see [Data Sheet D808](#)). Use of Resene Epox-O-Bond filler is only suitable when finishing with pigmented Resene Uracryl systems.

### 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 thinned 10%. Allow to cure for 24 hours then lightly sand surface to remove raised fibres.

### Galvanised steel, Zinalume, aluminium and repaints

Remove oil or grease film with Resene Roof Wash and Paint Cleaner (see [Data Sheet D88](#)) and rinse thoroughly. Prime with Resene Vinyl Etch (see [Data Sheet RA31](#)). Old painted surfaces should be sound, clean and sanded to give a surface free from chalking, flaking paint, dirt, mould or grease. A test patch should be done to check that Resene Uracryl 402 does not lift the old paint. Spot prime any bare metal with recommended substrate primer.

### Particle board, timber

Sand to establish a smooth clean surface. Stop all nailholes, joints and other surface irregularities. Apply cross-linking acrylic primer.

### Steel

Degrease according to SSPC SP1 solvent cleaning. Remove all weld spatter, grind weld seams and sharp edges. Ensure complete removal of all weld flux by wire brushing followed by washing with copious quantities of freshwater. Dry abrasive blast to a minimum of SSPC SP10 (Sa 2.5). Blast to achieve a 25-50 micron anchor profile. Apply zinc rich or epoxy primer.

*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.*

## Application

### Application

Roller, brush, spray. Thin as required according to application method. When brushing or rolling work in a continuous direction and immediately lay-off with a brush if bubbles persist.

**Clear systems for concrete/fibre cement:** Apply Resene Uracryl 403 Clear (see [Data Sheet RA56](#)) as the sealer coat followed by a minimum of two coats of Resene Uracryl Clear in the desired gloss level.

### Mixing

Stir each component separately using an explosion-proof mixer. Preferably add total contents of hardener container to total contents of base. Power mix until uniformly blended and allow mixed product to stand for 10-15 minutes prior to application.

## Safety precautions

1. 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**
2. The hardener is sensitive to moisture and should be kept tightly sealed when not in use.
3. The hardener contains a trace (less than 1%) of hexamethylene di-isocyanate, which is of course further diluted when blended with the base. When brushed or rolled, normal ventilation procedures used with solventborne systems will ensure that the level in the air never reaches a M.A.C. of 0.02 p.p.m. As with any solventborne system, if adequate ventilations is not available, a respirator should be worn. When sprayed, mixed product may be harmful by inhalation. Wear suitable protective clothing, gloves, eye and face protection, including suitable breathing protection such as an air-supplied respirator or hood.
4. Do not breathe vapour. Avoid contact with skin and eyes. If eyes become contaminated flush with water for a minimum of 15 minutes. **SEEK MEDICAL AID IMMEDIATELY.** Wear suitable protective clothing, gloves and eye and face protection.
5. **FLAMMABLE** – keep away from sparks and open flame.

*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.*

**In Australia**  
PO Box 785, Ashmore City, Queensland 4214  
Call 1800 738 383, visit [www.resene.com.au](http://www.resene.com.au)  
or email [advice@resene.com.au](mailto:advice@resene.com.au)

**Resene**  
the paint the professionals use

**In New Zealand**  
PO Box 38242, Wellington Mail Centre, Lower Hutt 5045  
Call 0800 RESENE (737 363), visit [www.resene.co.nz](http://www.resene.co.nz)  
or email [advice@resene.co.nz](mailto:advice@resene.co.nz)