

# Resene Waterborne Uracryl 803

waterborne  
urethane acrylic  
gloss finish

Resene Waterborne Uracryl 803 is a waterborne high performance two component gloss finish with excellent resistance to abrasion, moisture, petroleum solvents and mineral and vegetable oils. The most unusual feature of Resene Waterborne Uracryl 803 is that, unlike other classes of high performance coatings, it looks as good as it protects and is unsurpassed for durability and colour retention.

## exterior/interior

## Typical uses

As a long life 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, aluminum, anti graffiti, chemical plants, concrete wall surfaces, dairy factories, fibre cement, food processing plants, GRC panels, hotel and motel rooms, meat works, office blocks, pulp and paper mills, roofing, structural steel, galvanising.

*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](http://www.resene.com/datasheets). If in doubt contact Resene.*

## Physical properties

<b>Vehicle type</b>	Reactive acrylic
<b>Hardener</b>	Polyisocyanate
<b>Pigmentation</b>	Titanium dioxide/light fast chemically resistant types
<b>Solvent</b>	Water/ester/glycol ether
<b>Pot life</b>	2 hours at 18°C (see limitations)
<b>Mix ratio</b>	5:1 (by volume)
<b>Induction time</b>	10-15 minutes
<b>Finish</b>	Gloss
<b>Colour</b>	White, selected BS381C, BS5252, Resene Total Colour System and Resene Whites & Neutrals
<b>Dry time (minimum)</b>	Tack free: 2 hours at 18°C
<b>Recoat time (minimum)</b>	3 hours at 18°C. Maximum: 2 weeks at 18°C. Can be recoated when applied film does not retain a fingerprint when pressed.
<b>Primer required</b>	Yes (ferrous and non-ferrous metal substrates, including galvanising/Zincalume and zinc rich paints).
<b>Theoretical coverage</b>	12 sq. metres per litre at 38 microns DFT (thinned 5%)
<b>Recommended DFT</b>	75 microns (minimum 2 coat application required)
<b>Usual no. of coats</b>	2 (dependent upon substrate and porosity)
<b>Chemical resistance</b>	Very good (acid/alcohol)
<b>Heat resistance</b>	Very good
<b>Solvent resistance</b>	Excellent (see performance)
<b>Toxicity</b>	Hardener and mixed product contain small amounts of monomeric di-isocyanate
<b>Thinning</b>	Water only. <b>Do not</b> thin with glycol containing thinners including Resene Hot Weather Additive.
<b>Clean up</b>	Clean up with warm water and detergent immediately after use. Application equipment will be irrevocably damaged if uncured product is not thoroughly removed (wet paint).
<b>VOC</b>	69 grams per litre when mixed and unthinned (see <a href="#">Resene VOC Summary</a> )

## Performance and limitations

<b>Performance</b>	<ol style="list-style-type: none"> <li>1. Waterborne formulation.</li> <li>2. Enables use of high performance urethanes when spray application is difficult or undesirable.</li> <li>3. Gloss pigmented anti-graffiti coating.</li> <li>4. Excellent exterior durability.</li> </ol>
<b>Limitations</b>	<ol style="list-style-type: none"> <li>1. In early stages of curing, film may be susceptible to mechanical damage.</li> <li>2. Not recommended for immersion use.</li> <li>3. Not recommended for direct application to Resene Vinyl Etch (see <a href="#">Data Sheet RA31</a>), Resene ConcreteSeal 3 in 1 (<a href="#">Data Sheet D409</a>) or inorganic zinc silicates such as Resene Zincilate 11 (see <a href="#">Data Sheet RA21</a>).</li> <li>4. Do not apply at temperatures below 10°C and relative humidity greater than 85% or when these conditions exist during drying/curing.</li> </ol>

# Waterborne Uracryl 803 urethane acrylic

## 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. Seal concrete with Resene Aquapoxy Gloss (see [Data Sheet RA42](#)) thinned 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 (see [Data Sheet RA42](#)) 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 and Metal Wash (see [Data Sheet D88](#)) and rinse thoroughly. Prime with Resene Armourcote 220 (see [Data Sheet RA34](#)) or Resene Armourcote 221 (see [Data Sheet RA36](#)).

**Particle board, timber:** Sand to establish a smooth clean surface. Stop all nailholes, joints and other surface irregularities. Prime with Resene Quick Dry waterborne primer undercoat (see [Data Sheet D45](#)).

**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 (see Limitations).

*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

### Mixing

Add total contents of hardener container to total contents of base. Mix until uniformly blended using a wide flat stirrer or power mixing. Back add the mixed material to the hardener container (approximately two thirds full) and hand mix or re-lid and shake for 1-2 minutes to incorporate any hardener that was not decanted in the first instance. Add this back to the previously mixed paint and re-mix until uniform. Thin with 5% fresh water to achieve desired consistency and allow the mixed material to stand for 10 minutes prior to using.

### Application

Apply by roller (Resene No.1 sleeve), synthetic brush or spray. When rolling, work in a continuous direction and immediately lay-off with a 50% overlap, tip-off with a brush if bubbles persist. Avoid working back over areas that have begun to dry as this will lead to a patchy finish.

**Thin only with water** when applying under hot or windy conditions. Care is advised when applying thinned product as sag of the wet film may occur.

GASSING WILL OCCUR IF UNTHINNED PRODUCT IS APPLIED AT WET FILM THICKNESSES IN EXCESS OF 125 MICRONS. When applying thinned product maximum wet film thickness to avoid gassing is dependent upon the amount of water added.

**Do not use mixed product beyond the stated pot life for the given temperature.**

### CAUTION

**Do not tightly re-seal quantities of leftover mixed product, as the mixed product generates carbon dioxide gas, which can cause the lid of a tightly sealed can to pop with force. Leave the mixed material in a safe place for at least 48 hours for outgassing to be completed before sealing cans for disposal through a Resene PaintWise location or approved hazard waste site.**

## 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 0.5%) 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. If adequate ventilation 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.



WB Uracryl 800 Series  
Hardener SDS

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