

POLY U™ 400 Metallic

P50.02

Description

- A two-pack, re-coatable isocyanate cured acrylic polyurethane metallic finish.
- Approved to APAS-2911/1.
- Conforms to AS/NZS 3750.6 Type 1.

Product Characteristics

- Unlimited re-coatability.
- Excellent resistance to atmospheric exposure.
- Excellent gloss retention.
- Tough, flexible and abrasion resistant.
- Resistant to splash of mineral oils, vegetable oils and aliphatic petroleum products.
- For best protection overcoat with Poly U400 anti-graffiti clear.

Colours and Gloss

- Metallic, tintable to a wide range of light metallic colours - full gloss.

Recommended Film Thickness (Per Coat)

	Minimum	Maximum	Typical
Dry film thickness (µm)	40	60	50
Wet film thickness (µm)	80	150	125
Theoretical spreading rate (m ² /l)	10.0	6.7	8.0

Basic Data at 25°C

Solids content approx.	40% by volume
Mix ratio	4A:1B by volume
Touch dry after	2 hours (Std Part B) 1 hour (RR Part B)
Full cure	7 days (Std Part B) 6 days (RR Part B)
Temperature resistance	95°C (dry), 35°C (wet)

Surface Preparation

PREVIOUS SUITABLE COAT

- Must be dry and free from chalking and contamination and sufficiently roughened if necessary.
- Oil and grease should be removed from all surfaces in accordance with AS 1627.1 solvent cleaning.
- Substrate temperature must be at least 5°C during surface preparation, application and curing and at least 3°C above dew point.
- Relative humidity should not exceed 75% during application and before the dry to handle time.

Application Instructions

- Mixing ratio by volume 4A:1B.
- Mix Poly U400 Metallic Part A with Poly U400 Standard (Std) Part B or Poly U400 Rapid Recoat (RR) Part B only.
- Induction time – none.

- Pot life at 25°C 5 hours for Standard (Std) Part B, (3 hours for Rapid Recoat (RR) Part B). Do not use after this time even if the mix is still liquid.
- Rapid recoat Part B is not recommended for use at temperatures above 35°C. Stir the components and mixed product well using a mechanical mixer.
- This product must be thinned with the recommended thinner before application. Thinning recommendations are given as a guide and may vary depending upon substrate temperature and weather conditions.
- The temperature of the mixed product must be above 15°C, otherwise extra thinner may be required to obtain application viscosity.
- Too much thinner will result in lower sag resistance and slower cure.
- Thinner should only be added after mixing the components.
- Freshly catalysed material should not be added to product that has been mixed for some time.
- Wattyl recommends the use of coating inspection reports in compliance with AS/NZS 3894.10,11,12 refer to Information Sheet I-20 for more information.
- For recommendations outside those contained in this data sheet, refer to Wattyl.

Application Methods

	AIRLESS SPRAY	AIR SPRAY	BRUSH/ ROLLER
Recommended thinner	Not recommended	Thinner L747	No recommended
Volume of thinner		15-25%	
Tip		1.4- 1.8mm (0.06-0.07 inch)	
Atomised pressure		3.4-4.1 bar (50-60 psi)	

CLEANING SOLVENT | Thinner L747

- At temperatures greater than 30°C, or in windy conditions, or where slower drying is required, part, or all, of Thinner L747 may be replaced with Thinner L748. However, film thicknesses must be closely monitored as excessive film builds may result in sagging

Safety Precautions

- Flammable. Avoid contact with heat and naked flame.
- Avoid contact with skin and eyes.
- Use gloves, mask and goggles during application.
- Provide adequate ventilation when using in confined spaces.
- This paint contains 0.049% monomeric diisocyanate when mixed. Provide adequate ventilation during use. Breathing the vapour is dangerous. Avoid breathing of

POLY U™ 400 Metallic

P50.02

fumes. Where applied by spray, use suitable air-fed respiratory equipment/hood at all times.

- This product is intended for use in industrial situations by professional applicators in accordance with the advice given on this sheet. All work involving the use and application of this product should be carried out in compliance with all relevant Health, Safety & Environmental standards and regulations and must not be used without reference to the safety data sheet (SDS).

Additional Data

OVERCOATING TABLE

Overcoating interval for Poly U400 Metallic cured with Standard Part B when top coating with itself.

Interval	5°C	15°C	25°C	35°C
Min	36 hrs	24 hrs	16 hrs	8 hrs
Max	Unlimited when dry and free from any chalking and contamination			

Overcoating interval for Poly U400 Metallic cured with Rapid Recoat Part B when top coating with itself.

Interval	5°C	15°C	25°C	35°C
Min	21 hrs	14 hrs	8 hrs	NR
Max	Unlimited when dry and free from any chalking and contamination			

CURING AND POTLIFE TABLE

Curing and Potlife Table for Poly U400 Metallic cured with Standard Part B.

Paint temperature	5°C	15°C	25°C	35°C
Touch Dry	8 hrs	4 hrs	2 hrs	1 hr
Dry to handle	36 hrs	24 hrs	16 hrs	8 hrs
Full cure	16 days	10 days	7 days	5 days
Potlife (at applicable viscosity)	12 hrs	8 hrs	5 hrs	3 hrs

*Adequate ventilation must be continuously maintained during application and curing.

Curing and Potlife Table for Poly U400 Metallic cured with Rapid Recoat Part B.

Paint temperature	5°C	15°C	25°C	35°C
Touch Dry	4 hrs	2 hrs	1 hr	NR
Dry to handle	21 hrs	14 hrs	8 hrs	NR
Full cure	12 days	8 days	6 days	NR
Potlife (at applicable viscosity)	8 hrs	5 hrs	3 hrs	NR

*Adequate ventilation must be continuously maintained during application and curing.

Precautions

- For recommendations outside those contained in this data sheet, refer to Wattyl.

Product Compatibility

PRIMERS

- Epinamel UC230
- Epinamel PR250
- Epinamel PR360ZPS
- Epinamel DTS680
- Epinamel DTM985

TOPCOATS

- Poly U400
- Poly U400 Anti-Graffiti Clear

Storage and Packaging

- Shelf life at least 12 months.
- All components shall be stored in a dry internal environment at between 5°C and 35°C.
- Packaging: 5 litre kit (4 litre Part A, 1 litre Part B)
- Product line: 2022.

For the most up to date information, please visit our website at www.wattylpc.com.au, or contact us at Australia 132 101 (Australia) 0800 825 7727 (New Zealand).

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