

POLY U™ 750 (Formerly Acrolon® 750)

P51.02

Description

- A two-pack, high-build, re-coatable isocyanate cured acrylic polyurethane finish.
- Approved to APAS-2911/1.
- Conforms to AS/NZS 3750.6 Type 2.
- Approved to MRWA Specification 908 Ant-Graffiti.

Product Characteristics

- 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.
- Resistant to splash of mild chemicals.

Colours and Gloss

- White gloss.
- AS2700 colours.
- Colours obtained by tinting with Ultratint tinters.

Recommended Film Thickness (Per Coat)

	Minimum	Maximum	Typical
Dry film thickness (µm)	75	120	100
Wet film thickness (µm)	100	160	135
Theoretical spreading rate (m ² /l)	10	6.3	7.5

Basic Data at 25°C

Solids content approx.	75% by volume
Mix ratio	4A:1B by volume
Touch dry after	3 hours (Std Part B) 1.5 hours (LT Part B)
Full cure	7 days (Std Part B) 4 days (LT Part B)

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.

CONCRETE

- Must be free from bond breakers, curing agents or any other contaminants that may interfere with adhesion.
- Blast clean to remove all laitance (acid etch can be used to remove all laitance – for atmospheric exposure only).
- Concrete should be treated as per AS/NZS 2311.
- Moisture content of concrete should be a max. 4%.
- Ensure all new concrete is fully cured prior to coating; typically, this may take a minimum of 4-6 weeks.
- Test pH to ensure a value of less than 9.
- Must be absorbent prior to coating.

- Optimal finish will be obtained with the use of a suitable primer, however when applied direct-to-concrete the level of finish will vary depending on substrate profile.
- If applied direct to concrete, care should be taken with the film build applied to avoid pinholing.

Application Instructions

- Mixing ratio by volume 4A:1B.
- Mix Poly U750 Part A with Poly U750 Part B only.
- induction time – none.
- Do not use the product outside of recommended pot life, even if the mix is still liquid.
- Stir the components and mixed product well using a mechanical mixer.
- Low temperature Part B is not recommended for use at temperatures above 35°C.
- 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.
- Thinning recommendations are given as a guide and may vary depending upon substrate temperature and weather conditions.
- 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.
- The application of a tack coat is recommended
- 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	Thinner L703 or L747	Thinner L703 or L747	Thinner L754
Volume of thinner	0-10%	0-15%	0-10%
Tip	0.33-0.42mm (0.013-0.017 inch)	1.4-1.8mm (0.06-0.07 inch)	<ul style="list-style-type: none"> • Nylon/polyester or natural bristle brushes recommended. • Recommended roller cover should be 5-10mm woven with a solvent resistant core. • Multiple coats may be required to achieve the recommended dry film thickness.
Fluid/Atomised pressure	15 MPa (2100 psi)	0.3-0.4 MPa (50-60 psi)	
Filter	60 mesh		
Hose	¼" ID (6.3 mm)		

POLY U™ 750 (Formerly Acrolon® 750)

P51.02

CLEANING SOLVENT | Thinner L703 or L747

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 0.037% monomeric diisocyanate when mixed. Provide adequate ventilation during use. Breathing the vapour is dangerous. Avoid breathing of 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 U750 cured with Standard Part B when top coating with itself or other compatible topcoats.

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 U750 cured with LT Part B when top coating with itself or other compatible topcoats.

Interval	5°C	15°C	25°C	35°C
Min	21 hrs	14 hrs	8 hrs	NR
Max	21 days	14 days	10 days	NR

CURING AND POTLIFE TABLE

Curing and Potlife Table for Poly U750 cured with Standard Part B.

Paint temperature	5°C	15°C	25°C	35°C
Touch Dry	12 hrs	6 hrs	3 hrs	1½ hrs
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)	7 hrs	4 hrs	2½ hrs	1 hr

*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

- Galvit EP100
- Epinamel UC230
- Epinamel PR250
- Epinamel PR360ZPS
- Epinamel DTS680
- Epinamel NS808
- Epinamel DTM985

TOPCOATS

- Poly U400
- Poly U750
- Poly U775

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: 20 litre kit (16 litre Part A, 4 litre Part B)
5 litre kit (4 litre Part A, 1 litre Part B)
- Product line: 2030.

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).

This information, provided by Hempel (Wattyl) Australia Pty Ltd is important to ensure that the listed product(s) perform according to the stated application and uses and must be followed to meet Wattyl's warranties express and implied. Wattyl advises that you (a) review the Technical Data Sheets (TDS) and Material Safety Data Sheets (MSDS) before you use or handle the product; (b) ensure that the product be used only in accordance with the information provided by Wattyl and the product(s) be transported, stored and handled in accordance with the information on the MSDS and relevant TDS; and (c) thoroughly test the product, using the recommended application method on a sample of intended substrate, before using the product. 2. The information in this TDS was prepared using information gathered during product development. While Wattyl endeavours to update this information and maintain the accuracy and currency of its contents, Wattyl does not warrant that the information provided is current when the product is used or is wholly comprehensive. 3. For all product and non-product related information, Wattyl recommends that you conduct such additional investigations as may be necessary to satisfy yourself of the accuracy, currency and comprehensiveness of the information on which you rely in using and handling the product. If you require further information please contact your nearest Wattyl office before using the product(s). 4. To the full extent permitted by law, Wattyl's liability for breach of a condition or warranty implied into the contract for sale between Wattyl and you by law is limited at Wattyl's election to: (a) the replacement of the product; or (b) payment of the cost of replacing the product. If coating rectification is required Wattyl's Technical Services shall be contacted prior to commencement. Trademarks are the property of Hempel (Wattyl) Australia Pty Ltd. (ABN 40 000 035 914)

Wattyl Protective Coatings is part of the Hempel Group, a world leading supplier of trusted coating solutions. Hempel is a global company with strong values, working with customers in the decorative, marine, infrastructure and energy industries. Our purpose is to shape a brighter future with sustainable coating solutions, and with more than 100 years of protecting some of our customer's most valuable assets, we aim to earn their trust every day. The Hempel Group is proudly owned by the Hempel Foundation.