

# POLY U™ 400 ANTI-GRAFFITI CLEAR

P50.03

## Description

- A two-pack, isocyanate catalysed polyurethane non-sacrificial anti-graffiti clear coating.
- Approved to APAS-1441/1, APAS-1441/3.

## Product Characteristics

- Can be specified where long-term protection from damage caused by graffiti is required.
- Contains silicone additives to minimise graffiti adhesion for easier removal.
- The clear coating is a barrier to the risk of shadowing after graffiti is removed.
- Unlimited recoatability.
- Outstanding exterior durability.
- Extremely tough, flexible, and abrasion resistant.
- Common graffiti may be removed using suitable graffiti removers.
- Excellent resistance to solvents.
- Excellent resistance to mechanical abrasion.
- Typical applications are for the protection of walls in high density population areas where damage by graffiti is prevalent, eg. pedestrian walkways, bus shelters, railway stations, staircases, etc.

## Colours and Gloss

- Clear – full gloss.

## Recommended Film Thickness (Per Coat)

	Minimum	Maximum	Typical
Dry film thickness (µm)	30	40	30
Wet film thickness (µm)	85	115	70
Theoretical spreading rate (m <sup>2</sup> /l)	11.7	8.8	11.7

## Basic Data at 25°C

Solids content approx.	35% 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

- 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.

## BARE CONCRETE AND BRICKWORK

- Suitable for application direct to fully cured bare concrete and brickwork.
- Remove all laitance and contamination from the surface prior to application.
- Systems on tiltup or precast concrete require special attention refer to Wattyl Technical Service for assistance before application.

## 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.
- Previous suitable coats include Wattyl Poly U400, Poly U750 and Paracryl solid colours and metallics, Wattyl Solagard and Wattyl I.D (for interior use).
- All previous coatings must be well cured before application of Poly U400 Anti-Graffiti Clear.
- Not suitable for application over enamels or texture coatings.

## PREVIOUSLY GRAFFITIED SURFACE

- Presence of graffiti may result in wrinkling or bleed through even if it has been painted over. Therefore, completely remove graffiti OR seal off graffiti with a suitable epoxy barrier coat before reinstating full colour coat. Then follow instruction from 'Previously Painted Surfaces' section above.

## Application Instructions

- Mixing ratio by volume 4A:1B.
- Mix Poly U400 Anti-Graffiti Clear 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.
- 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.

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## Application Methods

	AIRLESS SPRAY	AIR SPRAY	BRUSH/ROLLER
Recommended thinner	Thinner L747	Thinner L747	Thinner L754
Volume of thinner	5-10%	15-25%	5-10%
Tip	0.28-0.33mm (0.011-0.013 inch)	1.4-1.8mm (0.06-0.07 inch)	<ul style="list-style-type: none"> <li>Nylon/polyester or natural bristle brushes recommended.</li> <li>Recommended roller cover should be 5-10mm woven with a solvent resistant core.</li> </ul>
Fluid/Atomised pressure	9.6-12.4 MPa (1400-1800 psi)	3.4-4.1 bar (50-60 psi)	
Pump	30:1	-	
Filter	60 mesh	-	
Hose	¼" ID (6.3 mm)	-	

**CLEANING SOLVENT** | Thinner 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 0.049% 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

### Graffiti Removal

- Poly U400 Anti-Graffiti Clear has the ability to withstand repeated solvent washing after achieving full cure.

### New Graffiti

- Use a non-abrasive cloth pad soaked in Wattyl Thinner L747 or Wattyl L780 Industrial Universal Thinner.
- Lightly rub the surface affected until graffiti is removed.
- Best results are obtained by removing graffiti within a few days. If this method is not sufficient, refer to the method below.

### Aged Graffiti

- Prolonged exposure and drying of some types of paints and felt pens may mean the above method has

little effect in removing them, therefore it may be necessary to use a stronger, commercially available graffiti remover, suitable for painted surfaces.

- Apply graffiti remover in conjunction with the manufacturers recommendations, they are typically used in conjunction with a soft bristled brush
- wash down surface to remove any residue from the graffiti removal process.
- Caution should be taken to limit the exposure of Poly U400 Anti-Graffiti Clear to these removal products as extended contact and repeated use may cause a hazy / low gloss appearance and result in the need to reapply more Poly U400 Anti-Graffiti Clear. If some shadowing cannot be removed by the above methods then it will be necessary to lightly sand the surface to remove the shadowing and re apply an additional coat of Poly U400 Anti-Graffiti Clear.

## OVERCOATING TABLE

Overcoating interval for Poly U400 Anti-Graffiti Clear 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 Anti-Graffiti Clear 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

Poly U400 Anti-Graffiti Clear 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

Poly U400 Anti-Graffiti Clear cured with Rapid Recoat (RR) 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.

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## Precautions

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

## Product Compatibility

### PRIMERS

- Poly U400 (Colours and Metallic)
- Poly U400 Anti-Graffiti Clear
- Poly U750
- Paracryl IF540 (Colours and Metallic)
- Solagard

### TOPCOATS

- 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](http://www.wattylpc.com.au), or contact us at Australia 132 101 (Australia) 0800 825 7727 (New Zealand).

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