

# 500L LIQUATHANE®

## Water Based 2 Part Urethane



### Description

Liquathane is a proprietary water-based two-part clear urethane manufactured and formulated by All Purpose Coatings. It is durable, hardwearing, and has little to no odour during the application and curing process. Liquathane is often used for commercial applications where solvent-based products cannot be applied due to restrictions or customer specifications.

### Recommended Uses

- Grind and seal of new and existing concrete
- Topical coating
- Warehouses
- Commercial spaces and retail stores
- Residential properties
- External and internal spaces

### Features and Benefits

- APAS approved (Australian Paint Approval Scheme)
- Australian made
- Hard wearing
- Roller or spray applied
- Non-foaming
- Low odour
- Minimal colour change to substrate
- Excellent film build
- Applicator friendly
- Semi-gloss satin finish
- Low VOCs (Volatile Organic Compounds)
- Chemical and solvent resistant

### Product Information

<b>Mix Ratio</b>	(4:1) 4 Parts 500L Part A : 1 Part 500L Part B
<b>Coverage</b>	8 - 10m <sup>2</sup> /L depending on the system, application, and porosity of the surface.
<b>Dry Film Thickness</b>	50 - 100 µm depending on the system, and application.
<b>Shelf Life</b>	12 months. Store in a cool, dry area and out of direct sunlight.
<b>Clean Up</b>	Clean tools with water while still wet and discard rollers and brushes.
<b>Cure Times</b>	<b>Pot life:</b> 1 - 2 hours <b>Work time:</b> 30 minutes <b>Thin tack free:</b> 4 hours <b>Thin shore hardness:</b> 72 hours <b>Max recoat time:</b> 72 hours without sanding
<b>Return to Service</b>	<b>Light foot traffic:</b> 24 hours <b>Full chemical cure:</b> 7 days  <b>Liquathane will not withstand hot tyre pickup.</b>
<b>Testing Information</b>	Cure times completed at 25°C in a 100g container or at 50-100µm.
<b>Maintenance</b>	Refer to APC Clean and Care guide.

NOTE: Refer to individual Installation Instructions & SDS for mixing instructions, recommended PPE during preparation & application of products.

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TECHNICAL DATA SHEET APC  
V0924

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### Environmental Conditions

Temperature and the surrounding atmospheric conditions will play a part in the curing process. Attention needs to be paid to the substrate temperature which should be at least 10°C and preferably 5°C above the dew point during the curing phase. The ideal humidity is less than 60%.

Industry standards recommend the accurate recording of times and dates, batch numbers, consumption rates, and environmental conditions including the substrate and air temperatures, humidity levels, and dew point readings during both the application and curing process. Full material warranties cannot be provided unless all the relevant data has been recorded accurately.

### Surface Preparation

- Ensure the concrete is sufficiently cured to the recommended minimum of 28 days from completion.
- Diamond grind the substrate. The surfaces must be clean, dry, and free from all traces of loose material, old coatings, curing compounds, release agents, laitance, oil, and grease, etc. This must be completed by diamond grinding or a suitable cleaning method. Finish with 60 grit or higher otherwise grinding/tool marks will be seen in the finished product.
- To check that all traces of oil and other contaminants have been completely removed, sprinkle a few drops of water over the surface. If all water is quickly absorbed, the surface is sufficiently oil and grease-free.
- If water forms into globules that remain on the surface, further thorough treatment of the substrate is necessary.
- Substrate compression strength should be at least 25MPa, cohesive bond strength at least 1.5MPa, and moisture content below 4%.
- Repair cracks and pin holes with APC Polymer Grout.

### Product Application

- Part A and B should be gently shaken or stirred individually before combining. It is recommended that the temperature of each component is between 15-25°C for optimal pot and working time. Mix 4 Parts A with 1 Part B (4:1) by volume. Mix with a drill mixer at a slow speed for 2 minutes. Ensure the sides and bottom of the container/bucket are mixed. Tilt the drill to the side to ensure the product on top of the container/bucket is mixing in with the product on the bottom. Allow 10-20 minutes after mixing for bubbles and foam to disperse.
- Liquathane can be applied by brush, roller, or low-pressure spray equipment. For best results, 500L Liquathane should be applied in a minimum of 2 coats when rolled but 3 coats are necessary when sprayed. The first coat of 500L Liquathane should have a spread rate of 6-8m<sup>2</sup>/L. The second coat or coating over pre-coated concrete should have a spread rate of 8-10m<sup>2</sup>/L.
- **Optional Slip Resistance:** Broadcast 1kg of 200G Glass Shard per 20m<sup>2</sup> between Liquathane top coats. Suited for wet or external areas, not suited for internal garages - cannot be mopped.

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### Physical Properties

<b>Solids Content</b>	41-43%
<b>Appearance &amp; Colour</b>	Translucent white when mixed.
<b>Flammability</b>	Non-flammable
<b>Viscosity</b>	90 mPas
<b>Taber Abrasion Resistance</b>	AS/NZS 1580.403.2-2006: 160mg loss (mg of loss/1000 cycles) H022 wheel; 1000 grams weight.
<b>Resistance to Chemical Spills</b>	Alcohol, petrol, acids, oils and alkalis
<b>Volatile Organic Compounds</b>	AP-T002: very low
<b>Impact Resistance</b>	AS 1580.406.1: high
<b>QUV Weather Meter, 4,000 hours</b>	Oxidation: no effect Loss of gloss: no effect Blistering: no effect Yellowing: no effect

### CAUTION

- Do not apply the product too thick or allow it to pool as an excessive build-up may cause the coating to appear milky, even on curing.
- Do not apply when the temperature is below 10°C during the curing process.
- Containers that have been opened must be used as soon as possible.
- **If recoating after 72 hours since the last coat, a mechanical bond will need to be made by sanding the previous coat.**
- **The viscosity of the product increases with time, if multiple mixes or more product is required on a single coat, ensure the new mix is combined with a minimum of 2L of the old mix. Not combining the mixes could result in patchiness or an uneven finish.**
- 500L Liquathane will **NOT** withstand hot tyre pickup.
- All solvents, corrosives and spills should be cleaned up as soon as possible.
- **SHAKE WELL BEFORE USE**

**In an emergency, contact the Poisons Information Centre on 13 11 26 or a doctor for advice. IF THE SITUATION IS LIFE THREATENING, DIAL 000 IMMEDIATELY.**

DISCLAIMER: Please ensure you read the SDS & TDS thoroughly & carefully before the use or application of any All Purpose Coatings product. These documents contain information in context to how you will apply the product, including if it is being used in conjunction with any other products or systems, and to what surface the product will be applied. All-Purpose Coatings Pty Ltd does not accept any liability either directly or indirectly for any losses that arise from the use or application of the product in accordance with any advice, specification & recommendation given by the companies' documentation or representatives at any point in time. Application, performance & safety data may change from time to time. It is the user and/or applicators' responsibility to ensure they have the latest copy of any documentation pertaining to their project. Industry standards recommend the accurate recording of times and dates, batch numbers, consumption rates and environmental conditions including substrate and air temperatures, humidity levels and dew point readings during both the application and curing processes. Full material warranties cannot be provided unless all the relevant data has been recorded accurately.