

## DESCRIPTION

**Aqua Urethane 2Pack™** is a water based, non-yellowing, two pack polyurethane sealer for concrete, flake floors, epoxy coatings, metallic epoxy, polished concrete and exposed aggregates, and can be used on floors and walls. This high performance polyurethane coating has an excellent clarity and UV resistance, provides an extremely tough, hard wearing film and is used as a durable protective coating for high traffic areas and commercial environments, where an outstanding resistance to weathering and excellent gloss or matte retention is required. It is perfect for the use in a wide range of environments where a lasting solution to floor maintenance problems is essential. The products unique features and benefits are water, alcohol, petrol, alkalis, acids & chemical resistant, with an excellent adhesion, high durability, joint less, easy and fast to apply, and easy to clean and maintain. Can be used interior & exterior, and on slightly damp surfaces.

## FEATURES & ADVANTAGES

- Water based
- Low odour
- Non-yellowing
- Low VOC
- Easy to apply
- For interior & exterior use
- Excellent wear resistance
- Excellent chemical & stain resistance
- Excellent scratch resistance
- Easy to clean & maintain

## RECOMMENDED USE

- Decorative finishes
- High traffic areas
- Hallways, Corridors & Hospitals
- Polished or hooped concrete
- Shopping centres & shops
- Sealing concrete and driveways
- Factories and shops
- Industrial, domestic and retail flooring
- Top Coat for epoxies and flake flooring
- Restaurants & Public Municipalities
- Schools, Showrooms & much more...

## TECHNICAL DATA & CHARACTERISTICS

APPEARANCE	Liquid
COLOUR	Clear or various colours as tinted version
VOLUME SOLIDS	46 % Gloss or Matte   68% solids Tinted Version
FINISH	Gloss, Satin or Matte   Tinted Version Semi-Gloss
COVERAGE	8 – 12m <sup>2</sup>
MIX RATIO	4 : 1 (4 Parts A to 1 Part B) by Volume
PACK SIZES	20L Kit / 16L Urethane Part A, 4L Hardener Part B
SPECIFIC GRAVITY	Part A 1.03 – 1.80kg/l   Part B 1.07 kg/l
POT LIFE	1 – 2 hours
DRYING TIME	30 – 90 mins @ 25°C
RECOAT TIME	3 – 6 hours @ 25°C
FULL CURE	7 days @ 25°C
SHELF LIFE	12 months, if properly stored in original unopened containers at temperatures between 10° C and 30°C, away from sunlight.

\* The pot life time depends on climatic conditions and temperatures.

\*\* Drying times generally depend on air circulation, temperature, film thickness, and application methods.  
 The figures given above are typical with good ventilation, typical film thickness and single coat application.

## SURFACE PREPARATION

All surface preparations must be carried out to Australian Standard or International Standard. New concrete must be cured for a minimum of 28 days before a coating.

Concrete moisture test should be carried out prior to coating application as per Standard ASTM4263 and/ or International Standard. The moisture content should be less than 4%.

Surface to be treated must be structurally sound and the substrate compressive strength should be at least 25MPa. The substrate tensile strength should be at least 1.5N/mm<sup>2</sup>. All non-structural cracks, holes and surface deformities should be repaired.

In general, the surface to be treated MUST be clean and free of all traces of loose material, dirt, debris, mildew, oil, grease, old coatings, curing compounds, release agents, laitance, dust and other contaminants.

All new or old concrete surfaces should be prepared by mechanical grinding, abrasive blasting, blast tracking, or any other suitable preparation/cleaning methods. Surface profile should exceed CSP 3 after preparation. Check if all traces of oil and other contaminations has been completely removed prior coating application.

For more detailed information, see following standard codes of practice, guides and techniques:

ASTM D4258 Standard practice for surface cleaning concrete for coating

ASTM D4259 Practice for abrading concrete

ASTM D4260 Practice for liquid and gelled acid etching of concrete

ASTM D4262 Test method for pH of chemically cleaned or etched concrete surfaces

ASTM D4263 Test method indicating moisture in concrete by the plastic sheet method

ASTM D4285 Test method for indicating oil or water compresses air

## APPLICATION & GUIDELINES

### Mixing Clear Version

First stir the Aqua Urethane 2Pack™ Part A ONLY thoroughly prior to use. Mix Aqua Urethane 2Pack™ (4 Parts A) with Aqua Urethane 2Pack™ Hardener (1 Part B). The mix ratio is 4:1 by volume. Always add Part B into Part A and make sure you add Part B slowly while mixing Part A. For your prime coat add 50-100% water for dilution, and for base coat add 20-50% water for dilution by volume per mixed litre. First mix Part A and Part B thoroughly, always add water AFTER and keep mixing until fully dispersed within the system. Always mix full pack sizes to avoid incorrect measure of ratio. Mix thoroughly and check gloss level before application. The applicator/customer is responsible for applying the correct gloss level.

### Mixing Tinted Versions

First stir the Aqua Urethane 2Pack™ Part A ONLY thoroughly before use to disperse the colour pigments consistently. Mix Aqua Urethane 2Pack™ (4 Parts A) with Aqua Urethane 2Pack™ Hardener (1 Part B). The mix ratio is 4:1 by volume. Always add Part B into Part A and make sure you add Part B slowly while mixing Part A. Use a mechanical mixer to ensure thorough mixing and avoid aeration when mixing the product. For your prime coat add 50% water for dilution, and for base coat add 10% water for dilution by volume per mixed litre. First mix Part A and Part B thoroughly, always add water AFTER and keep mixing until fully dispersed within the system. Ensure you continue thoroughly mixing throughout the entire application process to ensure even pigmentation dispersal. If not stirred consistently during the application process, colour variations may occur due to tint pigments settling at the bottom of the drum. Use a lint free epoxy roller to apply the product. Always mix full pack sizes to avoid incorrect measure of ratio. Mix thoroughly and check colour and gloss level before application. If your project requires multiple kits, please box the kits together for colour consistency. The applicator/customer is responsible for applying the correct colour.

### Application

Priming is recommended before the first coat to prevent pin holing and to minimise sink-back of material. Check colour prior to application, if you are using a tinted version. Prime coat with approximately 8m<sup>2</sup>/L, check for pinholes and do a 2<sup>nd</sup> prime coat if necessary. This applies for the gloss, satin, matte or coloured version. Two coats as minimum recommended. Use a lint free epoxy roller to apply the product. The second coat must be applied within 24 hours of the application of the first coat to ensure the second coat will bite into the first coat. If 24 hours has been exceeded, the first coat must be sanded prior to application of the second coat to assure a sound adhesion between coats.

### Curing Times

Pot Life: 1- 2 hours, Touch Dry: 30-45 minutes, Recoat: 4-6 hours, Full Cure: 7 days.

Allow coating to cure for at least 24 hours before subjecting to light pedestrian traffic and at least 7 days for full cure and vehicular traffic. All drying times and the pot life depend on climatic conditions, temperatures, film thickness, ventilation, humidity and application methods. All curing times mentioned in this TDS are based on temperatures of 25°C. Lower temperatures will extend curing times. If the temperature in your region is 12.5°C, all curing times will double e.g. full cure will be approximately 14 days. DCC does not recommend Aqua Urethane 2Pack™ application when temperatures are below 10°C.

### Cleaning

Clean all equipment immediately after use with water.

### Coating Maintenance

In general dirt, dust, contaminants, and excessive wear and tear will shorten the life of coating. Keep these areas clean and free from such pollutants and avoid excessive wear and tear. Clean coating regularly with warm mild detergent water up to 60°C and rinse with clean water. Do not use abrasive brushes, scouring pads or solvent to clean the coated surface. It is advisable if abnormal wear and tear will occur through moving furniture such as office chairs, keep these areas protected with a protective mat. Further to the above cleaning recommendations please ensure immediate cleaning of any spills. Refer to DCC Maintenance & Cleaning Guide for detailed information.

### Compatibility & Suitability

Do NOT mix this product or use this product in combination with any other products or brands. Due to the differences in substrates, material and site conditions, and environmental surrounds, the applicator holds whole responsibility for checking the products suitability for its intended purpose prior to application. Only products of the same brand/system should be used in combination as a system.

## PRECAUTIONS

Safety Data Sheet and Technical Data Sheet must be read before using and opening this product. Keep out of reach of children. Always wear personnel protective equipment (PPE) when handling this product. Keep away from heat and flame. No smoking. Provide adequate ventilation. For more details refer to safety data sheet (SDS).

This product is not completely tyre stain resistant.

Do not apply if the air or surface temperature is below 10°C, or if the temperatures are subject to drop below 10°C during applying, or after application within the curing time.

Do not apply if substrate is subject to hydrostatic pressure or rising dampness.

Do not apply if surface is subjected to unusual high temperatures above ambient temperature.

Do not apply if the surface temperature is over 30°C, or if the surface temperature is subject to raise above 30°C during applying, or after application within the curing time, or if relative humidity is suspected to become above 85%.

Do not apply if substrate is subject to rain or moisture, and protect surface at least 24 hours against any water impact, or moisture after application within the curing time. Do not use any product past its pot life. Store locked up, in a cool, dry, well ventilated place, away from sunlight, between 10°C and 30°C. Keep container tightly closed.

## DISCLAIMER

Do not apply this product if there is uncertainty about its application or surface preparation. This Technical Data Sheet is to be used as a guide only; it is NOT a specification. Durable Concrete Coatings Pty Ltd has no control over the use or storage of this product and therefore does not accept liability in this regard. Any verbal advice given should not be regarded as authoritative information. This information is subject to change without notice, therefore all applicators should ensure they have current information. This product is intended for the use only of skilled tradesman and where applicable, statutory licensed tradesmen experienced and trained in the use of this product. Due to differences in substrates, application methods and local conditions purchasers of these products must ensure that it is suitable for their specific application before using these products. While the information contained in the TDS and SDS is accurate to the best of our knowledge, Durable Concrete Coatings Pty Ltd cannot guarantee that the information contained is wholly comprehensive. Subject to the provisions of the Trade Practices Act, the company's liability in relation to defective products shall be limited to replacement of the product, if the product is proven to be defective. All Durable Concrete Coatings Pty Ltd terms and conditions apply.

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