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SHIMICOAT
SURFACE SOLUTIONS



AQUAthane Clear

Water-based Polyurethane

Description

An Ultra Clear water based Semi-Gloss finish Polyurethane, single component sealer, designed to protect and enhance concrete surfaces internally and externally. SHIMICOAT AQUAthane is an advanced formulation, cross linking emulsion with strong bonding to well-prepared concrete surfaces. The product can be used over existing solvent based acrylic coatings to freshen up your concrete surface. AQUAthane is an odorless, Green Star compliant (VOC free) sealer.

A ready-to-use water-based Polyurethane clear topcoat with excellent adhesion for added scratch and mar resistance with excellent moisture barrier properties. The product is engineered for superior toughness, durability, water resistance, and is excellent for applications where hardness and longevity are required. AQUAthane is a environmentally benign, non-flammable, fast drying, low odor alternative to solvent-based lacquers.

The product can be applied to most surfaces such as:

- Driveways
- Garage & Warehouse Floors
- Cafés and restaurants
- Alfresco & Patio

Features

AQUAthane is a single component water-based sealer designed to soak into the surface and provide protection from moisture ingress. The product's outstanding features:

- Easy Application:
 - Rolled
 - Brushed
 - Spray
- Water Based Product
- Non-Hazardous – Non-Dangerous Goods technology
- Odorless
- Weather resistance, friction resistance and compression resistance
- Hardwearing finish surface
- Excellent adhesion to concrete
- Excellent waterproof and anticorrosive properties
- Ideally suitable for under direct sunlight with extreme UV radiation
- Excellent anti-graffiti coating
- Excellent resistance to oil and most household chemicals
- Ideal for both Indoor and Outdoor
- Ready-to-use formulation without any need for dilution
- Protect against salt ion ingress
- Protect against efflorescence & biological growth
- Long lasting and Durable

 MATERIALS  CHEMICALS  RESINS  EQUIPMENT

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Pack Size

Larger kit sizes are available for special orders.

Kit Size (Lt)
5Lt
10Lt
20Lt

Colour Chart

Milky Liquid to Cure into Crystal Clear Finish

Coverage

5-10sqm/Lt Per Coat
Recommended Two Coats

5Lt Drum Covers 25-50sqm Per Coat (Need Two Coats)
10Lt Drum Covers 50-100sqm Per Coat (Need Two Coats)
20Lt Drum Covers 100-200sqm Per Coat (Need Two Coats)

Applications

Roller, Brush or Spray

Curing Time at 25°C

Touch Dry: 3 Hours (Depending on temperature, air flow and humidity)
Recoat: 4-6 Hours or Over Night (Min 4 Hours at 25°C)
Foot Traffic: 16 Hours
Heavy Traffic: 72 Hours

Clean Up

Clean-Up with water soon after completion of coating

Preparations

All surfaces should be structurally sound and all previous coatings, adhesives, efflorescence or laitance should be removed by mechanical grinding, abrasive blast cleaning, high pressure water blasting, scrubbing or other suitable means.

Clean and dry surface. Ensure surface to be coated is free of all dirt, grease, oil, paint, curing agents and other contaminants. Removal of Oil Contamination by degreaser and alkaline cleaning pressure wash
Acid-wash to enhanced surface porosity and etch the surface. Ensure moisture free surface. Allow to completely dry, run Dry Test. Place a piece of plastic over a small area, tape the edges and leave for 1 hour. Remove plastic, if there is no moisture on either surface, concrete is sufficiently dry. Ideally, always consider surface grinding and removal of loose materials. Grinding is always advisable prior to application of all Shimicoat Epoxy products, to maximize adhesion. Holes, crack lines, surface damages shall be fixed using SHIMICOAT Prior to Coat Procedures and Epoxy Crack Repair Kit. For further information, please refer to SHIMICOAT Instruction for "Surface Preparations".

Specifications

Physical Properties of AQUAthane:

Mix Ratios	Use Neat, use Deionised water if you need to dilute.
Appearance	Single Pack Milky Liquid
Solid Content (%)	>50% Polyurethane Polymer (Cross-Linked Emulsion)
Relative Density (Water=1.00)	1.0
Pot Life (Min)	Indefinite
Thinning, Dilution Chemicals	Deionised Water – Up to 10% Vol (Only if necessary)
Solubility	Water Soluble
Application Conditions (Temp °C)	10 – 30 °C
Coverage Rate	5-10 sqm/L/Coat, Needs Two Coats
pH	7.5 - 8.5
Recoat Time	2-4 Hours
Dry Time	1 Hour (more depending on weather conditions)
UV Resistant	Non-Yellowing & Durable

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MICOAT is the manufacturer and supplier of a wide range of Epoxy products for various applications and different desired performance results. Epoxies have below desirable properties:

- **Super strong bonding to a well-prepared concrete surface**, creating a well-adhered system base that will allow subsequent build and topcoats. A complete coating system is only as good as its initial bond to the concrete substrate.
- **High Build Up/ High Thickness epoxy application of 10mm or more**, ideal for basecoat. High Build Up/ High Thickness epoxy application of 10mm or more by self-levelling allows the coating to chemically bond to the epoxy primer, and is thick enough to your desire to self-level and fill minor concrete blemishes and hairline cracks. Depending on the desired performance requirements and condition of the concrete, more build coat applications may be installed by PourOn method. Upon curing, the epoxy build-coats provide a hard, durable surface.
- **Easy Installation & High Performance upon curing**, the epoxy build coats provide a hard, durable surface with good impact resistance
- **Resilient, impact resistant and hardwearing**: Ideal for high traffic floor,
- **Cost Effective** when compared to many other industrial flooring solutions

The two major drawbacks with Epoxy products are:

- Sensitive to UV radiation of sunlight and they tend to amber or yellow over time, so non suitable for outside applications, under direct sun or UV radiation
- Epoxies are not as abrasion and chemical-resistant as polyurethanes, they are more susceptible to scratch and marks

SHIMICOAT recommend Epoxy applications for basecoat and those areas out of direct sunlight and UVthane or AQUAthane for all topcoat applications.

Storage

The products shall be stored out of direct sunlight and heat at all times. The shelf life of the product is 24 months, mix uniformly for 3 minutes prior to use.

DISCLAIMER

Material Safety Data Sheet, Technical and Environmental Data Sheet can be provided upon request.

The information provided in this document is guidance only and considering the uses of this product are beyond the seller's control, the product is sold without guarantees or warranties. Warranties and guarantees shall be governed by SHIMICOAT Standard Terms of Sale. The purchaser shall make its own tests to determine the suitability for their specific application, and Shimicoat Pty Ltd is taking no responsibility for misuse of the product. The purchaser assumes all risk of use and handling of this product. This product will be happily replaced or credited back if defective. Beyond this, Shimicoat Pty Ltd is not liable for any damages caused by this product or its use.

This information and all further technical advice are based on our present knowledge and experience.

The customer is not released from the obligation to conduct careful inspection and testing of supplied goods.