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SHIMICOAT
SURFACE SOLUTIONS



Slip Resistant Ultra Clear Epoxy Complete Kit

Kit Sizes

Commercial Grade Complete Kit Slip Resistant Clear Epoxy contains:

- Crystal Ultra Clear Epoxy
- Xtra Grip SlipRes

Kit Sizes	Ultra-Clear Epoxy Resin Kit Size (Volume)	Xtra Grip SlipRes Weight
Extra Small	1.5Lt	500gr
Small	3Lt	1Kg
Medium	6Lt	2Kg
Large	15Lt	4Kg
Extra Large	30Lt	8Kg

Description

Slip Resistant Ultra Clear Epoxy contains Ultra Clear Epoxy and Grits to install your ideal slip resistant floor for indoor and undercover surfaces. Slip Resistant Ultra Clear Epoxy is ideal for maintaining the current look of your surface with a highly durable clear Epoxy coating with enhanced Xtra Grip SlipRes properties. You can easily broadcast the grit over the coated surface "while wet" with back rolling and another topcoat over it. Slip Resistant Ultra Clear Epoxy is an industrial grade top coating material for high performance floors with added benefit of safer surfaces. The product has various applications due to its excellent mechanical, chemical, electrical and adhesion properties to most substrates.

Two components (A & B) comes in clear, 100% solid Epoxy with Xtra Grip SlipRes materials within its matrix. Xtra Grip Slip Resistant Ultra Clear Epoxy used as Xtra Grip SlipRes coating material, with chemical resistance and durability, ideal for variety of floor coating systems in domestic, commercial and industrial capacities. Slip Resistant Ultra Clear Epoxy is a high-quality solvent-less, odorless two component coating system for concrete surfaces such as driveways, pathways, workshops and warehouses providing a tough film, high gloss and wet look to protect surface from stains, spills and wear with Slip Resistance properties. Slip Resistant Ultra Clear Epoxy has been developed specifically for Australian conditions using the latest surface technology. It provides excellent protection against weathering conditions and the splash and spillage of a wide range of chemicals. Slip Resistant Ultra Clear Epoxy provides a highly durable, chalk resistant, wear and chemical resistance surface for concrete floors.

High quality floor coating system that is solvent free when used as coating or binder. Clear Epoxy coating has specially developed to be incorporated with non-slip materials to provide your desired floor finishing system, with functionality and style. The surface may be laid as a thin film using roller applicator. The thickness of the coating can be reduced by addition of Diluent.

 MATERIALS  CHEMICALS  RESINS  EQUIPMENT

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Xtra Grip SlipRes materials used in Slip Resistant Ultra Clear Epoxy engineered to offer; advanced reinforcing filler functionality with many benefits such as high compressive strength, thermal resistance (high melting point), inert and chemically unreactive. Modern, hygienic, functional and economical surface.

No	Grit Size	Oil-Wet Inclining Platform Test	Wet Pendulum Test
1	Superfine	R9	P2
2	Fine	R10	P3
3	Medium	R11	P4
4	Coarse	R12	P5
5	Super Coarse	R13	P6

We DO NOT recommend using R12 and R13 as they are too coarse for this application. For Coarse and Super Coarse applications of R12 and R13, full broadcast SlipRes Xtra Grip floor or Quartz shall be applied. Silica Sand or Quartz can be used for full broadcast SlipRes Xtra Grip floor as it is more economical than using SlipRes Xtra Grip. Please contact SHIMICOAT office for further advice.

Features

Slip Resistant Ultra Clear Epoxy is supplied in two pack kit, Part A (Resin) and Part B (Curative or Hardener). It also contains highly advanced Slip Resistant materials engineered to reinforce Epoxy structure with added benefit of durability, high compressive strength, thermal stability and longevity. Slip Resistant Ultra Clear Epoxy offers many other benefits such as:

- Improved wear and abrasion resistance resulting from hardness and inorganic composition of Slip Resistant materials
- Enhanced acoustic properties owing to its capacity to absorb sound and vibration within the matrix
- Improved Fire Rating performance due to its non-combustible nature and super high temperature melting point materials used in Slip Resistant Ultra Clear Epoxy.
- Colour-fast and superior gloss retention due to spheres being uniformly being coated with resin and naturally rising, surfacing and positioning over the top surface
- Ideal Epoxy Coating over the spheres' outer layer, due to the surface tension.
- Modern, Hygiene, Functional and Economical.
- Safe and Compliance with most regulatory.
- Heavy duty clear or pigmented coating for concrete and polished concrete floors.
- Highly resistant to chemical attack and pedestrian or vehicular traffic.
- Long lasting and easily maintained with good resistance to a wide range of domestic and commercial chemicals.
- Solvent free when used as a clear unpigmented coating or binder.
- Outstanding water resistance.
- Seamless, easy to clean and maintain.
- Superior Chemical Resistant Finished surface
- Solvent Free (Unless you apply Diluent for thickness control)
- Engineered formulation for trafficable area with high mechanical strength
- DIY Friendly, easy to apply and curable over a wide range of temperature

Colour Chart

Clear & Transparent - Water Clear to Pale Amber.

Coverage

1L covers approximately 5sqm per coat, depend on the conditions of the surface.

First coat usually consumes more and the second coat less.

Applications

Roller, Brush or Squeegee.

Dry Time at 25°C

Pot Life:	45 minutes at 25°C
Tack Free:	2-3 hours
Thin Film Set:	6 Hours (Min, depending on temperature and humidity)
Dry Cured:	8-16 hours – Foot Traffic (depending on temperature and humidity)
Fully Cured:	7 days (Vehicle Traffic)
Re-Coat:	Over night

Components of the Kit

Ultra Clear EPOXY UC100 is an industrial grade epoxy coating material for high performance floors. The product has various applications due to its excellent mechanical, chemical, electrical and adhesion properties to most substrates. Two components (A & B) comes in clear 100% solid epoxy used as clear topcoat with chemical resistance and durability, ideal for variety of floor coating systems. Ultra Clear EPOXY UC100 is a high-quality solvent-less, odorless two component coating system for concrete surfaces such as driveways, pathways, workshops and warehouses providing a tough clear film, high gloss and wet look to protect surface from stains, spills and wear.

Ultra Clear EPOXY UC100 has been developed specifically for Australian conditions using the latest epoxy technology. It provides excellent protection against weathering conditions and the splash and spillage of a wide range of chemicals. Ultra Clear EPOXY UC100 provides a highly durable, chalk resistant, wear and chemical resistance surface for concrete floors. High quality topcoat epoxy floor coating system that is solvent free when used as a clear unpigmented coating or binder.

The product can be tinted in all Australian Standard Colours. This coating has specially developed to be incorporated with non-slip materials and a large number of decorative materials to provide a floor finishing system, with functionality and style.

The surface may be laid as a thin film using roller applicator. The thickness of the coating can be reduced by addition of Diluent. Aggregates may be added to the blend to create a non-slip flooring finish. Modern, hygienic, functional and economical surface.

Xtra Grip Grits

Xtra Grip SlipRes is an inorganic oxide complex of Aluminium with extreme pressure impact resistant of up to 1.5Tonne per grain. Shimicoat Xtra Grip SlipRes is available in many grit sizes to represent Australian Standard Non-Slip Floor Finishing System rating of R9 to R13:

No	Grit Size	Oil-Wet Inclining Platform Test	Wet Pendulum Test
1	Super Fine	R9	P2
2	Fine	R10	P3
3	Medium	R11	P4
4	Coarse	R12	P5
5	Super Coarse	R13	P6

Specifications

Physical & Chemical properties of UVthane:

Pot Life @25°C	45min
Colour of Blend	Crystal Water Clear
Specific Gravity (SG) of Blend	1.1
Low Profile Coverage (Kg/sqm)	Roller Application (200micron) - 0.2Kg of Blend per sqm <i>3Kg Kit covers 15sqm</i>
Maximum Temperature Exposure (°C)	140
Initial Cure Time (Hours)	24
Ultimate Cure Time (Days)	7 Days

Specific resistance properties of UVthane, in harsh chemicals:

Media	Reagent	Rating
Acids	Hydrochloric Acid	B
	Sulphuric Acid	C
	Acetic Acid	B
	Nitric Acid (10% max)	C
	Phosphoric Acid (25% max)	B
Alkalis	Sodium Hydroxide	B
	Ammonium Hydroxide	A
	Potassium Hydroxide	B
	Sodium Hypochlorite (Bleach)	A
Solvents	Xylene	A
	Methyl Ethyl Ketone (MEK)	C
	Diesel	A
	Ethanol	A
	Acetone	B
	Kerosene	A
	Petrol	A
	Wine & Beer	A
Code	Resistance	Description
A	Excellent	Suitable for Long term immersion
B	Good	Suitable for Short-term immersion (Max 3 days)
C	Caution	Very short contact time is OK, spill and splash
D	Danger	Not Recommended
Indicative reference only. Tested in laboratory conditions at 25°C.		

Resistance properties of UVthane:

Heat Resistant	140°C	Alkalis	Resist Short term immersion in all alkalis.
Weather Proofing	Slip Resistant Ultra Clear Epoxy is ideal for both indoor and outdoor applications.	Salts & Brines	Resist continuous or long-term immersion in all Salts & Brine systems.
Solvents	Resistant to most hydrocarbon solvents and alcohols.	Water	Excellent resist to continuous or long term immersion in fresh & Salt Water.
Acids	Resist splash and spills in all acids.	Abrasion	Excellent when fully cured (7 Days)

NOTE: UVthane is UV Resistant, not UV Proof, discoloration under direct sun UV radiation may occur.

Direction

The Xtra Grip grit material used in Slip Resistant Ultra Clear Epoxy, enhances performance of Epoxy matrix by improving compression strength, increased thermal and fire rating properties and ultimately, Slip Resistant attributes. Slip Resistant Ultra Clear Epoxy provides functional benefits and added values through enhanced performance of surface coating beyond non-slip properties:

- Durability,
- Easy cleaning feature, Easy Mop, Easy Wipe.
- Enhanced Mechanical and chemical resistant properties,
- Fire resistant properties,

Mixing:

Mix thoroughly for a minimum 3 minutes manual or with mechanical mixer at low speed (750rpm Max).

Helpful Hints:

- Ensure surface to be coated is dry. Moisture can cause blooming and delamination.
- Pot life is approximately 45 minutes, work within 30min to ensure ideal rheological properties and easy flow application.
- Use steady long strokes and avoid overworking the roller or pushing your roller too quickly as this may trap air bubbles in the coating.
- Do not apply, if the rain is expected within 24 hours of application.
- Not recommended for use below 10°C or above 35°C.
- New concrete should be allowed to cure fully (at least 20days) before application.
- Keep the containers (Pail or Cans) sealed when not in use.
- Avoid application on hot surfaces.



Drying Times

Slip Resistant Ultra Clear Epoxy dries in 8-20 hours, depending on temperature and humidity. High temperatures and windy conditions may speed up the curing time.

Keep foot traffic off the final coat for at least 16 hours and vehicles for at least 7 days. Full hardness is achieved after 7 days.

Temp °C	Pot Life (min)	Surface Dry (Hours)	Initial Cure (Hours)	Recoat Time (Hours)	Fully Cured (Days)
10°C	45	12	24	24	7 Days
20°C	40	10	18	18	7 Days
30°C	35	8	16	16	7 Days

WARNING

- Heavy vehicles with hot tires may cause damage on driveway. Avoid driving over the new coated floors till completely cured (7 Days). For parking the car, place a mat under each tire during the first few weeks to ensure longevity of your new floor.
- Do not apply the product, if the concrete has a patchy appearance as moisture may be present. Dry Test prior to application.
- UVthane is UV Resistant, not UV Proof, discoloration under direct sun UV radiation may occur. Direct sunlight and UV radiation may result in chalking, colour variations and yellowing effect over time.

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.

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