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SHIMICOAT
SURFACE SOLUTIONS



Slip Resistant Clear UVthane PLUS Complete Kit

Kit Sizes

Commercial Grade Complete Kit Slip Resistant Clear Epoxy contains:

- Crystal Clear UVthane – UV Resistant Polyurethane
- Xtra Grip SlipRes

Kit Sizes	UVthane PLUS Clear Polyurethane Resin Kit Size (Volume)	Xtra Grip SlipRes Weight
Extra Small	1.15Lt	500gr
Small	2.3Lt	1Kg
Medium	4.6Lt	2Kg
Large	7Lt	4Kg
Extra Large	15Lt	8Kg

Description

Slip Resistant Clear UVthane PLUS contains UV Resistant Polyurethane and Grits to install your ideal slip resistant floor for both indoor and outdoor surfaces. Slip Resistant Clear UVthane PLUS is ideal for maintaining the current look of your surface with a highly durable clear Polyurethane coating with enhanced Xtra Grip SlipRes properties. You can easily broadcast the grit over the coated surface “while wet” with another topcoat over it.

Slip Resistant Clear UVthane PLUS is an industrial grade UV Resistant Polyurethane 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.

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MATERIALS CHEMICALS RESINS EQUIPMENT

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Xtra Grip SlipRes materials used in Slip Resistant Clear UVthane PLUS 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 shall be applied. Silica Sand 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 Clear UVthane PLUS 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 Polyurethane structure with added benefit of durability, high compressive strength, thermal stability and longevity. Slip Resistant Clear UVthane PLUS offers many other benefits such as:

- Improved wear and abrasion resistant
- 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 Clear UVthane PLUS.
- 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 Polyurethane 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

UVthane PLUS - UV Resistant Polyurethane

UVthane PLUS Clear is one of SHIMICOAT's innovative products for topcoat applications over Epoxy, Flake, Metallic or direct on concrete or timber surfaces. The product is a high solid and high build Two Pack Crystal Clear Polyurethane specifically engineered to achieve a smooth, hardwearing surface for Flake flooring, textured concrete, masonry, laminate and timber surfaces. It is an ideal choice for use in areas which require an extremely high build, hard protective coating with excellent UV resistance offering clarity and functionality. It produces a high gloss with excellent weathering properties and abrasion resistance. While the main purpose of SHIMICOAT UVthane PLUS Clear is to be used as clear topcoat, it can also be tinted in all Australian Standard colours for specialized applications.

SHIMICOAT Polyurethane is widely used in marine services where high gloss UV resistant, salt tolerance, hardness and abrasion resistance are required.

Developed by SHIMICOAT R&D department, UVthane PLUS Clear is a high-performance resinous surface coating for industrial manufacturing environments, focusing on important properties required for a topcoat protective application.

As an outstanding protection for your valuable business assets, SHIMICOAT Crystal Clear Polyurethane offers all those properties you may require:

- Can be applied as thick as you wish without overheating problem (High Build Clear Resin)
- Abrasive/scratch resistant when compared to MANY other surface coating materials
- Chemical resistant to harshest chemicals available in household
- Long lasting as it DOES NOT wear out
- Modern, Hygienic, Economical and Functional

For mining, oil & gas industry, agricultural machinery, plant and equipment, marine services or any other application where exceptional durability is crucial, this ultra-tough two-pack polyurethane direct gloss topcoat provides superior performance.

The product retains excellent gloss and colour over a long term, keeping your valuable equipment surfaces and floors looking great while enhancing the image of your business.

Direct on application and Ideal for most surfaces:

- | | |
|------------------------|------------------------|
| ▪ Grey Concrete | ▪ Timber Surfaces |
| ▪ Exposed Aggregate | ▪ Metal Surfaces |
| ▪ Limestone | ▪ Laminate |
| ▪ Decorative Concrete | ▪ Polished Concrete |
| ▪ Epoxy Flake Floors | ▪ Tools and Appliances |
| ▪ Tiles and all Pavers | ▪ Indoor and Outdoor |

Creating a smooth impervious surface.



MATERIALS



CHEMICALS



RESINS



EQUIPMENT

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 PLUS:

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 PLUS, 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 PLUS:

Heat Resistant	140°C	Alkalis	Resist Short term immersion in all alkalis.
Weather Proofing	Slip Resistant Clear UVthane PLUS 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 PLUS is UV Resistant, not UV Proof, discoloration under direct sun UV radiation may occur.

Direction

The Xtra Grip grit material used in Slip Resistant Clear UVthane PLUS, enhances performance of Polyurethane matrix by improving compression strength, increased thermal and fire rating properties and ultimately, Slip Resistant attributes. Slip Resistant Clear UVthane PLUS 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 Clear UVthane PLUS 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 PLUS 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.

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.