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SHIMICOAT
SURFACE SOLUTIONS



Slip Resistant Ultra-Clear Polyaspartic Complete Kit

Kit Sizes

Commercial Grade Complete Kit Slip Resistant Clear Epoxy contains:

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

Ultra-Clear Polyaspartic Resin Kit Size (Volume)	Xtra Grip SlipRes Weight
2Lt	500gr
4Lt	1Kg
6Lt	2Kg
8Lt	4Kg
10Lt	8Kg
20Lt	20Kg
40Lt	40Kg

Description

Slip Resistant Ultra-Clear Polyaspartic contains UV Stable Polyaspartic and Grits to install your ideal slip resistant floor for both indoor and outdoor surfaces. Slip Resistant Ultra-Clear Polyaspartic is ideal for maintaining the current look of your surface with a highly durable clear Polyaspartic 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 Ultra-Clear Polyaspartic is an industrial grade UV Stable Polyaspartic 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.

You can easily broadcast the grit over the coated surface “while wet” with another topcoat over it. Slip Resistant Ultra-Clear Polyaspartic is an industrial grade UV Resistant Polyaspartic 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 Polyaspartic with Xtra Grip SlipRes materials within its matrix. Xtra Grip Slip Resistant Ultra-Clear Polyaspartic 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 Polyaspartic 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.

 MATERIALS  CHEMICALS  RESINS  EQUIPMENT

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Slip Resistant Ultra-Clear Polyaspartic 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 Polyaspartic provides a highly durable, chalk resistant, wear and chemical resistance surface for concrete floors. High quality Polyaspartic floor coating system that is solvent free when used as coating or binder. Clear Polyaspartic 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.

Xtra Grip SlipRes materials used in Slip Resistant Ultra-Clear Polyaspartic 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 Ultra-Clear Polyaspartic 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 Polyaspartic structure with added benefit of durability, high compressive strength, thermal stability and longevity. Slip Resistant Ultra-Clear Polyaspartic 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 Ultra-Clear Polyaspartic.
- 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 Polyaspartic 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:	15 minutes at 25°C
Tack Free:	1-2 hours
Thin Film Set:	3 Hours (Min, depending on temperature and humidity)
Dry Cured:	4 hours – Foot Traffic (depending on temperature and humidity)
Fully Cured:	1 day (Vehicle Traffic)
Re-Coat:	4 Hours

Components of the Kit

Ultra-Clear Polyaspartic - UV Stable Clear Topcoat

Ultra-Clear Polyaspartic 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 Polyaspartic 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 stability offering clarity and functionality. It produces a high gloss with excellent weathering properties and abrasion resistance. While the main purpose of SHIMICOAT Ultra-Clear Polyaspartic Clear is to be used as clear topcoat, it can also be tinted in all Australian Standard colours for specialized applications.

SHIMICOAT Polyaspartic is widely used in marine services where high gloss UV stability, salt & Chlorine tolerance, hardness and abrasion resistance are required.

Developed by SHIMICOAT R&D department, Ultra-Clear Polyaspartic 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 Polyaspartic 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 Polyaspartic 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
- Exposed Aggregate
- Limestone
- Decorative Concrete
- Epoxy Flake Floors
- Tiles and all Pavers
- Timber Surfaces
- Metal Surfaces
- Laminate
- Polished Concrete
- Tools and Appliances
- Indoor and Outdoor

Creating a smooth impervious 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 Ultra-Clear Polyaspartic:

Pot Life @25°C	15min
Colour of Blend	Crystal Water Clear
Specific Gravity (SG) of Blend	1.0
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)	4
Ultimate Cure Time (Days)	1 Day

Specific resistance properties of Ultra-Clear Polyaspartic, 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 Ultra-Clear Polyaspartic:

Heat Resistant	140°C	Alkalis	Resist Short term immersion in all alkalis.
Weather Proofing	Slip Resistant Ultra-Clear Polyaspartic 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)

Direction

The Xtra Grip grit material used in Slip Resistant Ultra-Clear Polyaspartic, enhances performance of Polyaspartic matrix by improving compression strength, increased thermal and fire rating properties and ultimately, Slip Resistant attributes. Slip Resistant Ultra-Clear Polyaspartic 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 15 minutes, work within 15min 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 Polyaspartic dries in 4 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 4 hours and vehicles for at least 1 day. Full hardness is achieved after 1 day.

Temp °C	Pot Life (min)	Surface Dry (Hours)	Initial Cure (Hours)	Recoat Time (Hours)	Fully Cured (Days)
10°C	20	4	5	4	1 Day
20°C	15	3	4	3	1 Day
30°C	10	2	3	2	1 Day

WARNING

- Heavy vehicles with hot tires may cause damage on driveway. Avoid driving over the new coated floors till completely cured (1 Day Min). For parking the car, place a mat under each tire during the first few days 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.

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.