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ART
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SHIMICOAT
SURFACE SOLUTIONS



Benchtop Epoxy Metallic Complete Kit

Kit Sizes

5sqm Kit Contains

Product Description	Size	Code	Quantity
Premium Tinted Epoxy	2Lt	PT	1
Ultra-Clear Epoxy	3Lt	UC	1
Dominant Pearlescent Powder Pigment	60gr	PP	1
Contrast/Feature Pearlescent Powder Pigment	30gr	PP	1
UVthane PLUS	1.15Lt	UP	1

10sqm Kit Contains

Product Description	Size	Code	Quantity
Premium Tinted Epoxy	4Lt	PT	1
Ultra-Clear Epoxy	6Lt	UC	1
Dominant Pearlescent Powder Pigment	120gr	PP	1
Contrast/Feature Pearlescent Powder Pigment	60gr	PP	1
UVthane PLUS	2.3Lt	UP	1

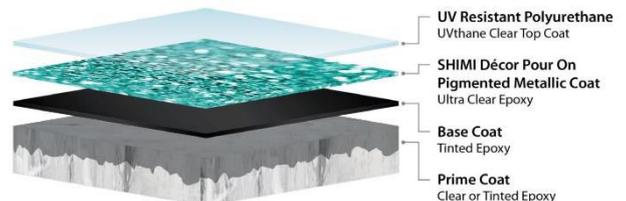
Description

Benchtop Epoxy Metallic is a complete kit containing Epoxy and Coating Materials for multi-layer coating with decorative finish.

The kit contains:

1. Epoxy Prime/Base Coat in your choice of Colour
2. Ultra Clear Metallic Epoxy Coating
3. Pearlescent Pigments in two colours
4. UVthane PLUS Clear Topcoat (Scratch / UV Resistant)

Please refer to SHIMICOAT colour brochures for your décor matching selection.



Colour Chart – Standard Primecoat/Basecoat Colours

Prime Coat and Base Coat “Standard Colours”:

- White N14
- Dark Grey N64
- Bright Blue B23
- Black N61
- Cream Y34
- Dark Brown X65
- Neutral Grey N23
- Terracotta R52

SHIMICOAT offers all Australian Standard AS2700 Colours, consisting of 206 colours.

Please contact SHIMICOAT office for your custom design tint. Extra charges may apply.

 **MATERIALS**  **CHEMICALS**  **RESINS**  **EQUIPMENT**

Ph: (08) 9364 7446 | info@shimi.com.au | ABN: 28 622 871 283 | www.shimi.com.au

Colour Chart – Pearlescent Metallic Dominant/Feature Colours

- Copper Cup
- Dragon Gold
- Flame Red
- Forest Green
- Grass Green
- Lime Green
- Pink Perfect
- Royal Blue
- Coffee Club
- Silver Frost
- Sunshine Yellow
- Vibrant Purple
- Wild Orange
- Onyx Black
- Pearl White
- Milky Marble
- Metallic Yellow
- Teal
- Turquoise
- Cobalt Aqua

Applications

Roller, Brush or Squeegee.

Primer: One Coat as Primer in your choice of colour

Basecoat: One Coat as Basecoat in same colour as Primer for extra coverage

Dominant Metallic: 10-20g/L of Dominant Metallic Pearlescent Powder

Feature Metallic: Small quantity of Feature Metallic Pearlescent Powder

Pour-On Metallic Epoxy at a rate of 0.5-1.0L/sqm

Dry Time at 25°C

Each Coat (Primer, Basecoat and Clear Pour-On Topcoat):

Pot Life:	45 minutes at 25°C
Tack Free:	2-3 hours
Thin Film Set:	8 Hours (Min, depending on temperature and humidity)
Dry Cured:	12-24 hours (depending on temperature and humidity)
Fully Cured:	7 days (Heavy Objects Exposure)
Re-Coat:	Over night

Clean Up

Thinner & Diluent (Blend of Solvents).

Preparations

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. For further information, please refer to SHIMICOAT Instruction for "Surface Preparations".

Components of the Kit

Basecoat Premium Tinted Epoxy:

Premium Tinted Epoxy 105PT 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 tinted, 100% solid epoxy used as basecoat, primer or tinted finish surface, with chemical resistance and durability, ideal for variety of floor coating systems. Premium Tinted Epoxy 105PT 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. Premium Tinted Epoxy 105PT 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. Premium Tinted Epoxy 105PT provides a highly durable, chalk resistant, wear and chemical resistance surface for concrete floors. High quality epoxy floor coating system in many colours that is solvent free when used as coating or binder. The product can be tinted in all Australian Standard Colours. Tinted Epoxy coating has specially developed to be incorporated with non-slip materials and a large number of decorative 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. Aggregates may be added to the surface (while wet) to create a non-slip flooring finish. Modern, hygienic, functional and economical surface.

Ultra Clear Topcoat Epoxy:

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.

UV Resistant Clear Polyurethane “UVthane”:

For outdoor applications, SHIMICOAT offers UVthane which is UV resistant Polyurethane Clear coating to be applied over Epoxy surfaces. UVthane Clear is one of SHIMICOAT’s innovative products for topcoat applications over Epoxy, Flake, Flake or direct-on concrete or timber surfaces. The product is a high solid, Non-yellowing high build Two Pack Polyurethane specifically engineered to achieve a smooth, hardwearing surface for Flake Epoxy Coating, 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 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 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)
- UV Resistant, so can be applied outdoor under direct sun and UV radiation
- 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 industries, 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 looking great while enhancing the image of your business. Direct-on application and Ideal for most surfaces:

- | | |
|---|--|
| <ul style="list-style-type: none"> ▪ Grey Concrete ▪ Exposed Aggregate ▪ Limestone ▪ Decorative Concrete ▪ Epoxy Flake Coating ▪ Tiles and all Pavers | <ul style="list-style-type: none"> ▪ Timber Surfaces ▪ Metal Surfaces ▪ Laminate ▪ Polished Concrete ▪ Tools and Appliances ▪ Indoor and Outdoor |
|---|--|

Creating a smooth impervious surface.

Pearlescent Metallic Pigments:

SHIMICOAT Metallic Pearlescent Pigments

For Special Effect Resurfacing Systems

SHIMICOAT Metallic Pearlescent Pigments are special luster effect pigments composed of mica nano-particles coated with various inorganic pigments to create metallic effects that mimic the natural look of stone, marble, granite and rock formations. These unique pigments are designed to be blended with our 100% solids clear Epoxy resins. When the metallic particles are mixed with epoxy, they give the coating a shine and gleam that reflects light and creates eye-catching dramatic effects.

Metallic Pearl Powder Pigments in Epoxy:

Metallic Pearlescent Pigments are commonly used in epoxy coating systems as the mid coat (second coat) over the primer/basecoat Epoxy. Metallic pigments should be mixed with clear epoxy and installed over an epoxy tinted base coat. The most popular basecoats are Onyx Black or Pearl White.

Typically, people use black for base coat. If you're just using the metallic powder pigments in a clear coat you need to put your coating on much thicker than normal rolling or brushing, in order to cover and achieve the desirable color. We normally recommend 500-1000micron Clear Topcoat, which is 500mL to 1Lt per sqm resin. A 250gr container of Metallic Pearlescent Powder Pigment shall be added into 15 Liter of 100% solids epoxy to be enough for 15sqm of coverage of rich 1000µ coating. There is no limit on how thick you can apply the Ultra Clear Topcoat and can be applied 2 or 3 or even 5mm thickness. Please note each 1.0mm is equal to 1000 Micron and require one liter of epoxy resin. Metallic Pearlescent Powder Pigment can be used in floor coating, countertop resurfacing, wall paints, plastic molding, ink applications, arts and crafts. Always test your method of use before applying to your entire project.

SHIMICOAT Pearlescent Powder Pigments being used globally to create unique stunning Polyurethane & Epoxy Resin designs. It is a great fun to play with these pigments and create your own unique and exotic colour combinations. Using our Pigments, you will be guaranteed; Non-bleed or Fading, Non-Rust or Toxic, Vegan & Cruelty Free, Food and Drug Administration (FDA) compliance and temperature resistance so can be used for worktops and floors with underfloor heating. Shimicoat Pearlescent Powder Pigments mix well with any clear epoxy on the market and disperse rapidly.

Composition of SHIMICOAT Pearlescent Powder Pigments

SHIMICOAT Pearlescent Powder Pigments contain the following mineral and inorganic compounds at different ratios for various colours and effects:

- Mica
- Titanium Dioxide (TiO₂)
- Selenium Dioxide (SnO₂)
- Ferric Iron Oxide (Fe₂O₃)

SHIMICOAT Pearlescent Pigment Powders are composed of above metal oxide layers of moldy mica. Pearl pigments change the thin layer of metal oxide to produce different pearlescent effects. Compared with other pigments, pearlescent pigments have an unparalleled effect on the unique soft pearl luster. The special surface structure, high refractive index and good transparency make it the same effect as pearl in a transparent medium. It contains 100% naturally occurring inorganic compounds. The excellent chemical and high temperature resistance of pearlescent pigments offers its potential for wide application in coatings, inks, plastics and many other fields. They provide a new color system and color quality for these products. SHIMICOAT Pearlescent pigments are low in heavy metal and meet the safety standards to be used in many commercial and domestic applications. Both acid and alkali cannot attack pearlescent pigment at room temperature. SHIMICOAT Pearlescent Pigment cannot burn, is not self-igniting, is not conductive, and can withstand high temperatures of 600~800 °C. Pearlescent pigments can also be used in reactive coatings for radiation curing systems (electron multiply curing, photocuring). SHIMICOAT Pearlescent Powder Pigments are one of our most versatile product that can be used to create your desirable metallic or pearlescent effect in many resin systems. The product may be used in acrylics, oils, printing inks, encaustics, alcohol inks, epoxy, glues, casting resins, clay, varnishes, etc. Pearlescent Pigments are safe, inert pigment that exhibits extreme colorfastness and stability. The different particle sizes produce different effects, from a smooth pearly luster, to a highly metallic sheen. The product creates a metallic effect without being a real metal—it will never tarnish or fade!

Note: SHIMICOAT Pearlescent Pigment Powders are specifically engineered for art/craft materials, surface coating and industrial applications. They are NOT recommended for cosmetic use.

Features

The basecoat Premium Tinted Epoxy PT105, is a durable foundation for rich and high build Ultra Clear Topcoat Epoxy, to support and ensure longevity of finished surface. A few selected features of the finished topcoat "Ultra Clear EPOXY UC100":

- Modern, Hygiene, Functional and Economical.
- Heavy duty clear or pigmented coating for concrete and polished concrete floors.
- Highly resistant to chemical attack, spillage and heat (up to 140°C).
- 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.
- Suitable for Flake Flooring systems, see SHIMI FLAKE flooring system.
- Superior Chemical Resistant Finished surface
- Excellent UV stability
- Solvent Free (Unless you apply Diluent for thickness control)
- DIY Friendly, easy to apply and curable over a wide range of temperature

Specifications

Physical & Chemical properties of Topcoat "Ultra Clear Epoxy UC100":

Pot Life @25°C	45min
Colour of Blend	Water Clear to Pale Amber
Specific Gravity (SG) of Blend	1.1
Low Profile Coverage (Kg/sqm)	Roller Application (200micron) - 0.2Lt per sqm 3Kg Kit covers 15sqm (Roller Application) Pour-On Application for Metallic Effect: 500mL to 1Lt per sqm (500micron to 1000micron Thickness) Thicker Clear Topcoat can be applied, if desirable.
Maximum Temp Exposure (°C)	140
Initial Cure Time (Hours)	24
Ultimate Cure Time (Days)	7 Days

Specific resistance properties of Ultra Clear EPOXY UC100, 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 Epoxy UC100:

Heat Resistant	140°C	Alkalis	Resist Short term immersion in all alkalis.
Weather Proofing	All Epoxy Coatings may yellow with time. Weatherproof top coat may be used if required.	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

Metallic Epoxy Countertop/Benchtop

An Installation Guide

Following is a step by step guide to install Metallic Epoxy topcoat over countertop, bar or benchtop surface of wood, concrete or metal.

Products and Materials

- Epoxy Repair Kit
- Basecoat Epoxy "Premium Tinted Epoxy in your choice of colour"
- Ultra Clear Epoxy Topcoat (Indoor),
- Diluent / Thinner
- Metallic Pearlescent Powder or Liquid in your choice of colours (Dominant and Feature)
- UVthane UV – Scratch Resistant Clear Topcoat

Tools:

- Electric mixer or stick for mixing resin
- Brush and Rollers
- Squeegee (Notched or Flat)
- Vacuum or blower to clean up the surface

NOTE: Metallic Floor Systems are only recommended for indoor applications.
Notched Squeegee leaves more epoxy on surface and assist with thicker finish.

Installation:

Surface Preparations:

1. Prepare the countertop by surface grinding/sanding and removal of loose materials.
2. Use Epoxy Repair kit as required to fill any cracks, holes or damages on the surface.
3. Ensure the surface is perfectly clean and free of oil and grease. If grinder is unavailable, acid wash and make sure you wash, rinse and flush with detergent to neutralize the surface and remove all acid residue.
4. Vacuum and/or blow out to remove dust from the surface.
5. Tape all around the walls and cover all surfaces that you wish NOT to be epoxy coated.

NOTE: For further information on surface preparation, please refer to our brochure, website or contact Shimicoat technical representative.

Basecoat Application:

1. Mix basecoat epoxy in small portion that you can manage to apply.
2. Premium Tinted Epoxy has a maximum of 40min Pot Lift, plan to complete your application within 30minuts allowing a few minutes for unexpected situations.
3. Calculate to apply 3sqm/Lt to achieve 300micron basecoat thickness.
4. Apply the basecoat epoxy to corners, edges first then the main surface.
5. Let it cure for 8-16 hours depending on temperature.

NOTE: Add Epoxy Diluent or Xylene up to 10% to thin the product, only if required for example in cold days and only for the basecoat. Do not dilute topcoat.

Pour-On Application:

1. When the surface is cured and touch-dried, plan to apply metallic topcoat.
2. Add your metallic Pearlescent Powder or liquid (~10-30g per Lt of Resin¹) into your resin (Part A). It may be desirable the pearlescent resin to be prepared in advance to ensure pigments are dispersed well into the resin, minimizing shooting stars. Mix well using an electric mixer at low speed for min 2 minutes.
3. If you are having two or more contrast effects, take out some small quantity of resin and prepare the colours accordingly.
4. When ready, add the correct quantity of Hardener / Curing Agent into the Pearlescent treated resin (Part A).

NOTE: Now you are on the clock, DO NOT waste time, initiate application. You must be prepared for application. One person applies the corners and edges using baby-roller or a brush and another person apply to the main surface. Pour the resin on the benchtop, and use a notched squeegee or a similar tool plus roller to spread-out the resin over the entire countertop. Go over the edges carefully. Calculate to apply 1L per sqm.

5. Add the contract colours and back roll over the entire surface.
6. Use your roller to go over the entire countertop till you are happy with its appearance.
7. You can use small hot gun (hot air blower) or other devices to go over the surface and burst any bubbles forming. If you are using Xylene or any flammable liquid DO NOT apply any naked flame or hot air over the surface.
8. Once happy with the appearance of PourOn Epoxy Application, clear the surface, wipe and clean all your tools using Xylene.
9. Once half cured (after a few hours) take the masking tapes off the edges as it will be too hard to take off when fully cured.
10. When application is complete and you are happy with the appearance of the countertop, let it cure for a minimum of 8 hours, ideally overnight 16 hours.
11. It may take a week or more till the Epoxy reaches its optimal hardness and strength.

NOTE: Add Metallic Pearlescent Powder in small increments, if using liquid pigment, increase dosage to your desired effect due to lower concentration of pigment present.

UVthane PLUS Application:

- Mix UVthane according to label instruction (3.6A:1B) for 2-3min and pour onto the surface.
- Using squeegee or spatula, spread the resin over the surface evenly.
- Back-roll or brush until smooth uniform surface is being achieved.
- Let it cure for 6-12hourse, depending on temperature and humidity.

For further advise, please refer to our website or contact technical team at Shimicoat.
End of Procedure.



MATERIALS



CHEMICALS



RESINS



EQUIPMENT

Mixing:

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

Please mix in correct ratios, read your product label and quantify accordingly.

- Ensure surface to be coated is dry, moisture can cause blooming and delamination.
- Pot life is approximately 45 minutes, work within 30min to ensure easy flow application.
- SHIMI COLOURS, SHIMI METALLIC or SHIMI GLITTERS should be first added to Part A (Resin). Mix slowly using drill mixer on low speed. Mix for a few minutes to ensure completely homogenized without lump. Pour the bend into your tray and apply directly on the surface using the roller.
- 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.
- New concrete should be allowed to cure fully (at least 28days) before application.
- Keep the pail sealed when not in use. Avoid application on hot surfaces.

Drying Times

Premium Tinted Epoxy PT105 cures in 8-16 hours at 25°C. High temperatures and windy conditions may speed the curing time.

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

Ultra Clear Epoxy UC100 cures in 8-20 hours at 25°C. High temperatures and windy conditions may speed the curing time.

Keep away from the final coat for at least 16 hours and heavy objects for at least 7 days. Full hardness is achieved after 7 days.

WARNING

- Heavy objects with hot tires may cause damage on driveway. Use the surface once cured, however, avoid placing heavy objects over the new coated surface till completely cured (7 Days).
- Do not apply Premium Tinted Epoxy PT105, if the surface has a patchy appearance as moisture may be present. Dry Test prior to application.
- Direct sunlight and UV radiation may result in chalking, colour variations and yellowing effect over time.

Storage

All 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.