

RESIDENTIAL  
& COMMERCIAL

INDUSTRIAL  
& MARINE

ART  
& CRAFT



**SHIMICOAT**  
SURFACE SOLUTIONS

# Swimming Pool Epoxy

## Complete Kit

### Kit Sizes & Contents

#### 5sqm Kit Contains

Product Description	Size	Code	Quantity
Swimming Pool Epoxy	2Lt	PT	1
Chemical Resistant Clear Epoxy Topcoat SHIELD	1.5Lt	UP	1

#### 10sqm Kit Contains

Product Description	Size	Code	Quantity
Swimming Pool Epoxy	4Lt	PT	1
Chemical Resistant Clear Epoxy Topcoat SHIELD	3Lt	UP	1

#### 25sqm Kit Contains

Product Description	Size	Code	Quantity
Swimming Pool Epoxy	8Lt	PT	1
Chemical Resistant Clear Epoxy Topcoat SHIELD	6Lt	UP	1
EpoDil	1Lt	ED	1

#### 40sqm Kit Contains

Product Description	Size	Code	Quantity
Swimming Pool Epoxy	12Lt	PT	1
Chemical Resistant Clear Epoxy Topcoat SHIELD	6Lt	UP	1
EpoDil	1Lt	ED	1

#### 60sqm Kit Contains

Product Description	Size	Code	Quantity
Swimming Pool Epoxy	20Lt	PT	1
Chemical Resistant Clear Epoxy Topcoat SHIELD	7.5Lt	UP	1
EpoDil	1Lt	ED	1

#### 90sqm Kit Contains

Product Description	Size	Code	Quantity
Swimming Pool Epoxy	20Lt	PT	2
Chemical Resistant Clear Epoxy Topcoat SHIELD	15Lt	UP	1
EpoDil	1Lt	ED	2



**MATERIALS**



**CHEMICALS**



**RESINS**



**EQUIPMENT**

## Kits Include

### Commercial Grade Complete Slip Resistant Tinted Epoxy:

- Swimming Pool Epoxy (ordered Size Quantity)
- Chemical Resistant Clear Epoxy (Ordered Size Quantity)

## Colour Chart

### Standard Colours:

- |                   |                    |                  |
|-------------------|--------------------|------------------|
| ▪ BRIGHT BLUE B23 | ▪ BEANSTALK G37    | ▪ Dark Grey N64  |
| ▪ PALE BLUE B35   | ▪ NEUTRAL GREY N23 | ▪ Terracotta R52 |
| ▪ BLUEBELL B41    | ▪ CREAM Y34        | ▪ Dark Brown X65 |
| ▪ SKY BLUE B45    | ▪ White N14        |                  |
| ▪ OPALINE G32     | ▪ Black N61        |                  |

SHIMICOAT offers all Australian Standard AS2700 Colours, consisting of 206 colours. Please contact SHIMICOAT office for your custom design tint. Extra charges may apply.

## Coverage

As specified on each kit size.

First coat usually consumes more and the second coat less.

## Applications

Roller, Brush or Squeegee.

## Description

Swimming Pool Epoxy is a complete kit containing tinted two pack Epoxy to your desired colour for applying Swimming Pool Epoxy to protect concrete, tile, fiberglass or other head surfaces with enhanced UV Resistant properties. Chemical Resistant Clear Epoxy can enhance UV & scratch resistance properties of the finish surface.

Swimming Pool Epoxy is an industrial grade epoxy coating material for high performance floors with added benefit of safer surface. The product has various applications due to its excellent mechanical, chemical, electrical and adhesion properties to most substrates. Swimming Pool Epoxy 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. Swimming Pool Epoxy 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. Swimming Pool 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.

## Dry Time at 25°C

Pot Life:	30 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 – Foot Traffic (depending on temperature and humidity)
Fully Cured:	7 days (Vehicle Traffic)
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"

## Features

Swimming Pool Epoxy is supplied in two pack kit, Part A (Resin) and Part B (Curative or Hardener) offering:

- 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 Epoxy matrix
- Improved Fire Rating performance due to its non-combustible nature and super high temperature melting point materials
- Colour-fast and superior gloss retention due to spheres being uniformly being coated with Epoxy 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

## Specifications

Physical & Chemical properties of Swimming Pool Epoxy 105TP:

<b>Pot Life @25°C</b>	45min
<b>Colour of Blend</b>	Available in All Australian Standard AS 2700 Colours
<b>Specific Gravity (SG) of Blend</b>	1.4 (or more once SlipRes Materials added)
<b>Low Profile Coverage (Kg/sqm)</b>	Roller Application (200micron) - 0.2Kg of Blend per sqm
<b>Maximum Temperature Surface Exposure (°C)</b>	140
<b>Initial Cure Time (Hours)</b>	24Hours
<b>Ultimate Cure Time (Days)</b>	7 Days

Specific resistance properties of Tinted Epoxy Premium 105TP, 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 Tinted Epoxy Premium 105TP:

<b>Heat Resistant</b>	140°C	<b>Alkalis</b>	Resist Short term immersion in all alkalis.
<b>Weather Proofing</b>	All Epoxy Coatings may yellow with time. Weatherproof top coat may be used if required.	<b>Salts &amp; Brines</b>	Resist continuous or long-term immersion in all Salts & Brine systems.
<b>Solvents</b>	Resistant to most hydrocarbon solvents and alcohols.	<b>Water</b>	Excellent resist to continuous or long term immersion in fresh & Salt Water.
<b>Acids</b>	Resist splash and spills in all acids.	<b>Abrasion</b>	Excellent when fully cured (7 Days)

## Chemical Resistant Clear Epoxy

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

SHIMICOAT Chemical Resistant Clear Epoxy 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, Chemical Resistant Clear Epoxy 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 thin as you wish without any compromise on performance
- 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 topcoat | ▪ Tools and Appliances |
| ▪ Tiles and all Pavers       | ▪ Indoor and Outdoor   |

Creating a smooth impervious surface.

## Direction

Swimming Pool Epoxy provides major functional benefits and added values through enhanced performance of surface coating:

- Durability,
- Easy cleaning
- Chemical resistant

### Mixing:

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

If mixing smaller portions, mix at a ratio of 3A:1B by volume. For example, to prepare 2Lt mix, add 500mL of Part B (Hardener or Curing Agent) into 1.5Lt of Part A (Resin).

- Ensure surface to be coated is dry, run moisture test. Moisture can cause blooming and delamination.
- Pot life is approximately 45 minutes, work within 30min to ensure 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.
- 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.

If applicable, broadcast Slip Resistant Grits over the wet Epoxy followed by rolling.

Mix Chemical Resistant Clear Epoxy at the right ratios as stated on label, mix for 2-3min, roll over the surface evenly.

### Drying Times

Swimming Pool Epoxy PT105 cures in 8-16 hours at 25°C. High temperatures

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

and windy conditions may speed 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.

### 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 Swimming Pool Epoxy PT105, if the concrete 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. This kit is designed for indoor and outdoor (out of direct sunlight) applications.
- For outdoor applications, UV resistance topcoat such as Polyurea or Polyurethane shall be used.

### 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.*