

RESIDENTIAL
& COMMERCIAL

INDUSTRIAL
& MARINE

ART
& CRAFT

SHIMICOAT
SURFACE SOLUTIONS



Clear Pump Epoxy

Kit Sizes

NO	Kit Size (Lt)	Mix Ratio
1	750mL	2A:1B (0.5Lt A + 0.25Lt B)
2	1.5L	2A:1B (1Lt A + 0.5Lt B)
3	3L	2A:1B (2Lt A + 1Lt B)
4	6L	2A:1B (4Lt A + 2Lt B)
5	15L	2A:1B (10Lt A + 5Lt B)

Description

Epoxy Resin Pump Kits are used for convenient and accurate measurement of the correct ratios of Epoxy Resins quickly and accurately without any mess or waste of resin. The Pumps fit conveniently onto the Epoxy and Hardener containers for both sizes.

Pumps are calibrated at the factory when new but need to be periodically checked for accuracy as they are used. Each Pump Dispenses 8mL.

Industrial Heavy-Duty Pumps are included with all kit sizes of 0.75, 1.5, 3, 6 and 15Liters.

Clear Pump Epoxy CP125 is an industrial grade epoxy coating material for high performance and accurate applications. The product has various uses due to its excellent clarity, ideal viscosity and consistency as well many other common properties of SHIMICOAT Clear Epoxy products such as superior 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 encapsulation, art, woodwork, craft and surface coating systems.

Clear Pump Epoxy CP125 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.

Clear Pump Epoxy CP125 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.

Clear Pump Epoxy CP125 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. The surface may be laid as a thin film using roller applicator. The thickness of the coating can be reduced by addition of Diluent. Modern, hygienic, functional and economical surface.



MATERIALS



CHEMICALS



RESINS



EQUIPMENT

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Features

Clear Pump Epoxy CP125 is supplied in two pack kit, Part A (Resin) and Part B (Curative or Hardener). Some selected features of Clear Pump Epoxy CP125:

- Easy pour, mix and apply
- Scratch Resistant
- Solvent free
- Outstanding water resistance
- Resistant to Salt and harsh oceanic conditions
- Resistant to a wide range of household chemicals
- Seamless, easy to clean and maintain.
- Superior Chemical Resistant Finished surface
- DIY Friendly, easy to apply and curable over a wide range of temperature
- Not UV resistant, it yellows under direct sunlight

Usage

Each pump dispenses 8mL

2A:1B by volume or weight

Two Pump Resin (Part A) / One Pump Hardener (Part B), Total of 24mL for each dose

Applications

PourOn, Roller, Brush or Squeegee.

Dry Time at 25°C

Pot Life: 45 minutes at 25°C

Tack Free: 2-3 hours

Thin Film Set: 8 Hours (Min, depending on temperature and humidity)

Deep Cast Set: 24 Hours (Min, depending on temperature and humidity) 10mm Max

Dry Cured: 12-16 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".

Specifications

Physical & Chemical properties of Clear Pump Epoxy CP125:

Mix Ratios	2A:1B (Volume) or 2A:1B (Weight) <i>For Example: 2Lt of A (2Kg) & 1Lt of B (1Kg)</i>
Pot Life @25°C	45min
Colour of Blend	Available in All Australian Standard AS 2700 Colours
Specific Gravity (SG) of Blend	1.4
Low Profile Coverage (Kg/sqm)	Roller Application (200micron) - 0.2Kg of Blend per sqm
Maximum Temperature Surface Exposure (°C)	140
Initial Cure Time (Hours)	24Hours
Ultimate Cure Time (Days)	7 Days
Compressive strength (ASTM D 695-85)	80-90
Tensile strength (ASTM D 638-86)	50
Flexural strength (ASTM D 790-86)	80-90
Hardness shore D (ASTM D2240-86)	81
Abrasion Resistance (ASTM D4060-90)	0.056 g/1000 cycle

Specific resistance properties of Clear Pump Epoxy CP125, 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 Clear Pump Epoxy CP125:

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

Prime Prior to Pour:

Pump to Prime – Prior to Pour.

When you insert the push down pump into the bottle and screw up, there are air in tube and the pump neck. This air has to be displaced with Epoxy prior to any application ensuring accurate measurement of epoxy dispensed, otherwise the mix ratio will be incorrect resulting in curing problems and non-compliance finish.

Cut the tube to the right size to ensure reaching the bottom of container, and insert into the bottle, tighten up and prime. Pump a few full strokes till you get the a few millimeters of epoxy resin into you waste jar. Repeat this process for both Part A and Part B. DO NOT USE this product as the ratios are inaccurate. The pumps are now being primed and ready to use. Monitor when the bottles are almost empty and ensure you get the full amount for each pump.

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 2A:1B by weight or volume. For example, to prepare 1.5Kg mix, add 1.0Lt of Part A (Resin) into 500mL of Part B (Curative or Hardener). If colour required, add SHIMI COLOURS to the kit and mix again thoroughly prior to pour.

- 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.
- Not recommended for use below 10°C or above 35°C.
- Keep the containers sealed when not in use. Avoid application on hot surfaces.
- Avoid exposure to direct sunlight as some yellowing effect may occur.

Drying Times

Clear Pump Epoxy CP125 dries in 8-10 hours. High temperatures and windy conditions may speed the curing time.

Keep foot traffic and heavy objects 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

- If pump is not used, please ensure the correct ratios of 2A:1B by weight or volume.
- Direct sunlight and UV radiation may result in chalking, colour variations and yellowing effect over time. For under direct sunlight, Polyaspartic, Polyurea or Polyurethane coating materials 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.



MATERIALS



CHEMICALS



RESINS



EQUIPMENT