

RESIDENTIAL  
& COMMERCIAL

INDUSTRIAL  
& MARINE

ART  
& CRAFT

**SHIMICOAT**  
SURFACE SOLUTIONS



# Benchtop Epoxy Flakes

## Complete Kit

### Kit Sizes

#### 5sqm Kit Contains

Product Description	Size	Code	Quantity
Premium Tinted Epoxy	2Lt	PT	1
Vinyl Flake	2.5Kg	VF	1
UVthane PLUS	1.15Lt	UP	1

#### 10sqm Kit Contains

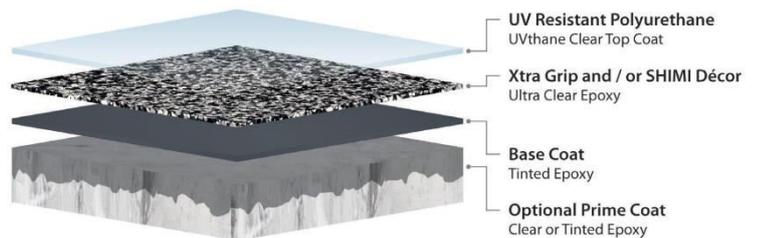
Product Description	Size	Code	Quantity
Premium Tinted Epoxy	4Lt	PT	1
Vinyl Flake	5Kg	VF	2
UVthane PLUS	2.3Lt	UP	1

### Description

Benchtop Epoxy Flake is a complete kit containing Epoxy and Coating Materials for multi-layer coating with decorative finish. The kit system contains:

1. Base Coat Epoxy
2. Vinyl Flake in your choice of blend/design
3. UVthane PLUS OR Ultra Clear Epoxy Topcoat

Please refer to SHIMICOAT colour brochures for your décor matching selection



### Colour Chart

Prime Coat and Base Coat Colours. **Standard Colours:**

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

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](mailto:info@shimi.com.au) | ABN: 28 622 871 283 | [www.shimi.com.au](http://www.shimi.com.au)

## Flake Colours & Blended Designs

SHIMICOAT offers flakes in three design pattern and styles:

### Blended Flakes:

- Domino
- Orbit
- Outback
- Tidal Wave
- Nightfall
- Gravel
- Creekbed
- Hog

### Hybrid Flakes:

- Jawbreaker
- Juneau

### Marble Flakes:

- Basalt
- Schist
- Pumice

### Glitter Accented Flakes: 3% Holographic Glitters

- Domino Glitter
- Orbit Glitter
- Outback Glitter
- Basalt Glitter
- Tidal Wave Glitter
- Nightfall Glitter
- Gravel Glitter
- Schist Glitter
- Pumice Glitter
- Creekbed Glitter
- Hog Glitter
- Pumice Glitter

Basecoat colour may have an effect on the shade of flake floor finished surface. Darker Basecoat may make the surface darker flake finish and lighter may assist the appearance of flake floor finish surface to be lighter.

If you like any colour that we may not show on our website or colour chart, simply provide us with something to match and we will produce any blend from any combination of coloured Flakes to your desire.

## Coverage

Each kit covers the specified concrete surface.

Please consider extra kit of Premium Tinted Epoxy for substandard and damaged concrete surfaces.

Partial Broadcast: One box of Flake (5Kg) per standard double garage (36sqm)

Full Broadcast: One box of Flake (5Kg) per 10sqm (0.5Kg/sqm)

Typical broadcast is any quantity up to 0.5Kg/sqm (Dosage may increase or decrease to your desired density).

## Applications

Roller, Brush or Squeegee.

## Dry Time at 25°C

Parameter	Premium Tinted Epoxy (Basecoat)	UVthane or UVthane PLUS(Topcoat)
<b>Pot Life:</b>	45 minutes at 25°C	45 minutes at 25°C
<b>Tack Free:</b>	2-3 hours	2-3 hours
<b>Thin Film Set:</b>	8 Hours (Minimum) Depending on temperature and humidity	8 Hours (Minimum) Depending on temperature and humidity
<b>Dry Cured:</b>	12-24 hours – Foot Traffic (depending on temperature and humidity)	12-24 hours – Foot Traffic (depending on temperature and humidity)
<b>Fully Cured:</b>	7 days (Vehicle Traffic)	7 days (Vehicle Traffic)
<b>Re-Coat:</b>	Overnight (16Hours)	Overnight (16Hours)

Multilayer Flooring systems can be installed consecutively. Each coat can be applied soon after thin film set/dry cured and being accessible.

## 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

### Multi-Layer Benchttop Epoxy Flake

**DOMESTIC - COMMERCIAL – INDUSTRIAL**

#### Basecoat Premium Tinted Epoxy:

Premium Tinted Epoxy 105PT is an industrial grade epoxy coating material for high performance. 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 surface coating systems. Premium Tinted Epoxy 105PT is a high-quality solvent-less, odorless two component coating system for various



surfaces such as timber, metal, concrete, laminate and stone, 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. High quality epoxy coating system in many colours that is solvent free when used as coating or binder. 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.

#### Vinyl Flakes

SHIMICOAT Flakes also known as "flecks or paint chips" are ideally suitable for Australian climate and are used to enhance all types of residential, commercial, and industrial surfaces, from garages, alfresco and pool areas, utility rooms and basements, to high traffic corridors, restrooms, warehouses, and retail spaces. Flakes composed of vinyl composite, resin materials, inorganic minerals, mica and various pigments. The product is compatible with most coating systems such as Epoxy, Urethanes, Polyurea, Polyaspartic and Acrylate. The product is integrally pigmented and coloured with random in shapes and sizes to provide a natural and pleasant look in many design and appearances to match your décor. When dry, Shimicoat Epoxy creates a seamless membrane, easy to maintain, easy to clean, Slip-Resistant, moisture barrier, resistant to abrasion, impacts and chemicals.

#### Shimicoat Flakes are:

- Custom design to match any décor
- Unlimited custom blending options
- Optimal flexibility and strength
- Colourfast, UV stable pigments
- Hide subsurface imperfection
- Easy to install
- Toughest and Fastest Surface Coating System
- Full or Partial Flake/Chip System with appearance of Granite, Marble or Terrazzo
- Easy to maintain
- Anti-Slip and high abrasion resistant
- Renewable, sanitary and safe

### **Ultra Clear Topcoat Epoxy:**

Ultra Clear EPOXY UC100 is an industrial grade epoxy coating material for high performance 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 epoxy used as clear topcoat with chemical resistance and durability, ideal for variety of surface coating systems. Ultra Clear EPOXY UC100 is a high-quality solvent-less, odorless two component coating system for variety of surfaces such as wood, metal, laminae, concrete and stone benchtop, 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 benchtop surfaces. High quality topcoat epoxy coating system that is solvent free when used as a clear un-pigmented 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.

### **UV Resistant Clear Polyurethane “UVthane”:**

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:

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

Creating a smooth impervious surface.

## Features

- Decorative & modern
- Seamless and hygienic
- Functional & easy to clean
- Moisture barrier
- Unlimited colors and blends
- Customizable
- Flat surface / thin profile
- Fire resistant
- Resistant to uv degradation
- Economical
- Increased asset value
- Environmentally benign

When dry, Shimicoat Epoxy creates a seamless membrane, easy to maintain, easy to clean, SlipRes, moisture barrier, highly resistant to abrasion, impacts and chemicals.

## Specifications

Physical & Chemical properties of Tinted Epoxy Premium 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 less Due to presence of SlipRes Materials
<b>Low Profile Coverage (Kg/sqm)</b>	Roller Application (200micron) - 0.2Lt 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)

## Direction

Easy Four Step application:

1. Surface Preparation
2. Basecoat Application
3. Full or Partial Flake Broadcast
4. Ultra-Clear, High Impact, UV Resistant Topcoat

Shimicoat offers easy step by step training for DIY Epoxy Coating Installation. Traditionally Flake systems are known for their application in garages and school amenities however in recent years Shimicoat offering contemporary colour range in Flake to suite many surfaces in both indoors and outdoors.

1. Durability,
2. Easy cleaning feature, Easy Mop, Easy Wipe.
3. Enhanced Mechanical and chemical resistant properties,
4. Fire resistant properties,

## Coverage

This kit contains enough Flakes (4.5Kg) for a rich Partial Broadcast.

# Coverage

Full Broadcast/Bodied:	A box of 5Kg/10sqm approximately
Partial Broadcast/Sparse:	A box of 0.5Kg for a standard 5sqm Countertop - approximately

*Quantities are best approximate as guide.*

### Flake Consumption:

SHIMICOAT recommends full broadcast Flake "to point of rejection", which is calculated to be 0.5Kg/sqm. Full broadcast results in some usable excess recovery.

### 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 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.

### Drying Times

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

UVthane cures in 12-16 hours at 25°C. High temperatures 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.

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

- Avoid heavy objects till completely cured (7 Days).

### 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.

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