

RESIDENTIAL  
& COMMERCIAL

INDUSTRIAL  
& MARINE

ART  
& CRAFT

**SHIMICOAT**  
SURFACE SOLUTIONS



# VINYL FLAKES

## Pack Sizes

Pack Size (Kg)
5Kg

## Description

SHIMICOAT Flakes also known as “Chips or Flecks” are ideally suitable for Australian climate and are used to enhance all types of residential, commercial, and industrial surfaces, from garages, 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 flooring 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 designs and appearances to match your décor.

SHIMICOAT color flakes recommended for use as a design element in durable, seamless flooring systems. Our Flakes are the highest performing brand available, and are used to enhance all types of residential, commercial, and industrial environments, from garages, utility rooms, and basements to high-traffic corridors, restrooms, warehouses, and retail spaces.

## 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
- Creekbed Glitter
- Hog Glitter
- Pumice Glitter



**MATERIALS**



**CHEMICALS**



**RESINS**



**EQUIPMENT**

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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

Flakes can be applied in two finishing types:

- Full Broadcast/Bodied (~5Kg/10sqm)
- Partial Broadcast/Sparse (~1Kg/10sqm)

Full broadcast application required scraping and removal of excess flakes and over 40% recovery may be achieved. Full broadcast application is recommended for professional installations.

## Features

SHIMICOAT Flakes are supplied in 5Kg bags/boxes to be sufficient for partial flake broadcast of standard double garage. The product is highly UV resistant and ideally suitable for both indoor and outdoor applications. Selected features of SHIMICOAT Flakes:

- |   |                                      |
|---|--------------------------------------|
| ▪ Decorative and modern                     | ▪ Colorfast, UV stable pigments      |
| ▪ Vibrant colours                           | ▪ Advanced chemistry Flakes          |
| ▪ Volumizing Flakes                         | ▪ Suitable for Waterbased Resin      |
| ▪ Many design and blends to choose from     | ▪ Suitable for Solvent Based Resin   |
| ▪ Stylish Stiped blends available           | ▪ Free flowing and easy to broadcast |
| ▪ Custom design to match any décor          | ▪ Conventional packaging of 5Kg/Box  |
| ▪ Tough & Durable                           | ▪ Economical Floors                  |
| ▪ Hide subsurface imperfection              | ▪ Non-flammable                      |
| ▪ Easy to install                           | ▪ Optimal flexibility & strength     |
| ▪ Easy to maintain                          | ▪ Forgiving application              |
| ▪ Full or Partial Flake/Chip System         | ▪ Fast turnaround times              |
| ▪ Appearance of Granite, Marble or Terrazzo | ▪ Lab tested resin compatibility     |
| ▪ Seamless & Hygienic                       | ▪ Suitable in many environments      |
| ▪ Functional & Easy to Clean                | ▪ Diligent Quality Control program   |
| ▪ Fire resistant                            | ▪ Hide sub-surface imperfections     |

## SHIMICOAT Volumizing Flakes

SHIMICOAT Flakes are more value for your money due to super low packing density and maximum surface area of the product. A 5Kg box of SHIMICOAT Flakes is almost 10Lt in volume while many other Flakes in the marketplace are half of this volume, some even less than half. This feature offers lighter density Flakes and greater contact surface with Epoxy coating hence double the value for your money, double coverage.

This unique product is random in shape, sized within a standardized range and custom blended to match any décor. SHIMICOAT Volumizing Flakes are continuing to gain popularity amongst architects, designers, contractors and consumers, because of their unique properties that deliver complete customization to commercial, residential and industrial floors with an endless range color-styles, texture, size and blending options.

FEATURES	BENEFITS
<b>DURABLE</b>	Resinous flooring systems provide superior chemical and abrasion resistance over pre-engineered floors.
<b>DECORATIVE</b>	Enhance your high-performance flooring environment by adding custom color and texture to complement any décor.
<b>ECONOMICAL</b>	SHIMICOAT resinous flooring systems provide a cost-effective alternative to pre-engineered floors. SHIMICOAT Flakes are volumizing with double the coverage of standard Flakes.
<b>SAFE</b>	SHIMICOAT resinous flooring media provides a unique texture that increases the slip-resistance and safety.
<b>CLEAN</b>	Resinous flooring systems are wax free and economical to upkeep with soap and water.
<b>MONOLITHIC</b>	Resinous flooring provides a seamless flow of wall-to-wall beauty that won't collect dirt, moisture, or germs.
<b>LOW SOUND</b>	Resinous flooring systems provide a seamless and flexible surface that deadens the noise of foot traffic and carts.
<b>RENEWABLE</b>	After years of use, efficiently revitalize your resinous flooring system by sanding the surface and applying a new topcoat.

SHIMICOAT FLAKE PERFORMANCE SPECIFICATIONS	
Attribute	Properties
<b>Box/Bag Weight</b>	5Kg Net
<b>Box Dimensions</b>	20cm X 20cm X 30cm
<b>Materials</b>	Vinyl Flakes
<b>Flake Sizes</b>	1/4" (6.35mm)
<b>Colour</b>	Available in Blended, Hybrid & Marble Finish
<b>Shape</b>	Random
<b>Surface Texture</b>	Smooth
<b>Applications</b>	Epoxy Flake Floor Finishing System
<b>Packing Density</b>	1-1.2 Kg/Lt
<b>Other Properties</b>	Chemical / Water / Heat / UV Resistant - Non-toxic
<b>Solubility</b>	Insoluble in Water, Oil and many other liquid media

## Applications

Complete surface preparations in accordance to SHIMICOAT procedure. Apply basecoat epoxy and while wet, broadcast flakes full broadcast or partial broadcast (evenly) over the surface and let the flakes to sit on wet surface and embedded into epoxy body. Let it cure, then apply clear topcoat polyurethane. The product is dusty, handle carefully and use dust mask and gloves when broadcasting. SHIMICOAT Flake Floors can be installed in many indoor and outdoor floors:

- Garage floors
- Shops
- Warehouses
- Kitchen
- Laundries
- Offices
- Schools
- Showrooms
- Swimming Pool Surrounding
- Food Processing Plants

## Clean Up

Use blower, broom and dustpan or vacuum cleaner to remove excess flakes.

## 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".

## Direction

### Epoxy Flake Floor

#### *An Installation Guide*

#### **EASY FOUR STEP APPLICATION:**

- Surface Preparation
- Basecoat Application
- Full or Partial Flake Broadcast
- Clear Topcoat Application

This kit contains enough Flakes (5Kg) for Partial Broadcast of a standard double garage 40sqm.

## Coverage

Full Broadcast/Bodied:	A box of 5Kg/10sqm approximately
Partial Broadcast/Sparse:	A box of 5Kg for a standard 40sqm garage (this may vary depending on your design), approximately

*Quantities are best approximate as guide.*

Following is a step by step guide to install Epoxy Flake Floor Finishing System using Shimicoat Products and Materials over concrete surface floor.

### Products and Materials

1. Epoxy Repair Kit
2. Basecoat Epoxy "Premium Tinted Epoxy in your choice of colour"
3. Flake in your choice of colour and design
  - a. Full/Dense/Bodied Broadcast: 0.5kg/sqm
  - b. Partial/Sparse/Light Braodcast: 100g/sqm or any ratios (personal choice)
4. Ultra Clear Epoxy Topcoat (Indoor), UV Resistant Topcoat (Outdoor)
5. Diluent / Thinner

### Tools:

1. Electric mixer or stick for missing resin
2. Brush and Rollers
3. Extendable Handle / Pole
4. Buckets
5. Epoxy Tray
6. Vacuum or blower to clean up the surface
7. Scraper (ONLY for full broadcast 4.5Kg/10sqm)
8. Spike shoes

### Installation:

#### Surface Preparations:

1. Prepare the floor by concrete grinding and removal of surface 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 and Flake Broadcast:

1. Mix basecoat epoxy in small portion that you can manage to apply. Premium Tinted Epoxy has a maximum of 40min Pot Life, plan to complete your application within 30minutes allowing a few minutes for unexpected situations.
2. Ideally, we recommend mix 3Lt of Part A and 1Lt of Part B (4Lt blend) for one or two people working on a small double garage floor.
3. Apply the basecoat epoxy to corners, edges first then the main floor.
4. While still wet, broadcast flake at your desired density, Full Broadcast or Partial Broadcast.
  - a. Full/Dense/Bodied Broadcast: 0.5kg/sqm
  - b. Partial/Sparse/Light Broadcast: 100g/sqm or any ratios (personal choice)
5. Remember wet-edge allowance, always leave a wet skirting (20-30cm) to be flaked with the next area of coating. Avoid coating over Flakes.
6. Let it cure. 2-3 hours for Fast Floor, 8-12 hours for normal curing epoxy.

**NOTE:** Add Epoxy Diluent or Xylene up to 10% to thin the product, only if required for example in cold days.

#### Topcoat Application:

1. Test to ensure fully cured by twisting your thumb on flake. It should feel solid and dry with strong bonding of flake to epoxy surface.
2. Test for dryness by twist and turning your thumb over the surface and ensure flakes are attached and boned.
3. Use a garden blower or vacuum to recover excess and unbound Flakes from the surface.
4. Use a floor scrapper on low angle on both direction to achieve smooth finish surface.

5. Use a blower to remove all flakes from floor.
6. Mix your Clear Topcoat Epoxy (Indoor) or Polyurethane (Outdoor) in accordance to label instruction and pour onto the surface.

**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 floor. If you are slow, pour the resin on the floor, to slow down the curing process. Apply and roll evenly.

1. The pot life of Ultra Clear Epoxy is 30min, plan your work to be completed well within 30min.
2. Ideally, mix 3Lt at a time.
3. When, you are happy with the topcoat, take the masking tapes off the walls as it will be too hard to take off when cured.
4. Clear the floor, wipe and clean all your tools.
5. Let it cure over-night (16 hours). The floor is cured after 16 hours, trafficable and you can use the floor, however, NO driving or stretching furniture over the floor for one week. Treat it with care, especially during the first few days of curing process.
6. It takes seven days till the Epoxy reaches its optimal hardness and strength. Epoxy gets harder and harder everyday of its life.

Please view our Youtube Epoxy Flake Floor Installation:

[https://www.youtube.com/watch?v=yFzv5Mqb\\_5w](https://www.youtube.com/watch?v=yFzv5Mqb_5w)

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

End of Procedure.

### 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.

### WARNING

Keep out of reach of children

Read Material Safety Data Sheet (MSDS) of the product prior to use.

### Storage

The products shall be stored out of direct sunlight and heat at all times. The shelf life of the product is 24 months.

#### **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**



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**RESINS**



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