

Epoxy / Polyaspartic Flake Floor

Decorative Multi-Layer Vinyl Flake Flooring System

TECHNICAL DATA SHEET

1. PRODUCT DESCRIPTION & INTENDED USE

Shimicoat Epoxy/Polyaspartic Flake Floor is a complete, decorative, seamless, hygienic and durable multi-layer flake flooring system. A tinted epoxy base coat is broadcast with vinyl flake and sealed with a polyaspartic clear top coat. Engineered for the Australian climate and suited to interior and exterior use.

The system is built up in the following layers:

- Premium Tinted Epoxy prime coat (optional)
- Premium Tinted Epoxy base coat
- Vinyl flake layer (full or partial broadcast)
- Polyaspartic clear top coat

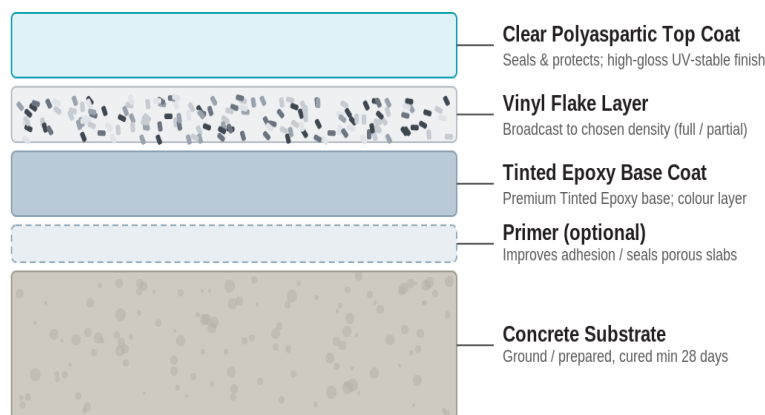


Figure 1 - Multi-layer build-up of the system.

2. KIT CONTENTS & COVERAGE

Each kit covers up to 50 m². Consider an extra base-coat kit for substandard or damaged concrete surfaces.

Product Description	Size	Code	Qty
Premium Tinted Epoxy	20Lt	PT	1
Vinyl Flake	5Kg	VF	4
Polyaspartic Clear Topcoat	12.5Lt	PA	1
EpoDil	1Lt	ED	1

Flake consumption: Partial broadcast - one box covers 20 m² or more (~1 kg per 10 m²). Full broadcast - typically 0.5 kg/m² (~5 kg per 10 m²); full broadcast requires scraping and removal of excess flakes, with up to 40% recovery, and is recommended for professional installations.

3. KEY FEATURES & BENEFITS

- Decorative and modern, seamless and hygienic finish
- Easy to clean - easy mop, easy wipe
- Moisture barrier; highly resistant to abrasion, impacts and chemicals

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- UV-stable polyaspartic top coat - resists yellowing
- Unlimited flake colours and custom blend designs
- Engineered for Australian conditions; interior and exterior use

4. RECOMMENDED SUBSTRATES & APPLICATIONS

Substrates: Concrete and prepared cementitious floors.

Applications: Residential and commercial interiors, garages, patios, alfresco and entertainment areas, showrooms, retail and amenities.

Applied by: Roller, brush or squeegee.

5. COLOUR CHART

Standard prime / base coat colours:

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

Shimicoat offers all Australian Standard AS 2700 colours (206 colours). Contact the Shimicoat office for custom design tints; extra charges may apply.

6. FLAKE RANGE

Shimicoat offers vinyl flakes in four categories. Any flake from the three series below can be supplied as an Accented flake by adding 3% holographic glitter. The base-coat colour affects the final shade - a darker base coat darkens the flake finish, a lighter base coat lightens it. Custom blends can be matched to any sample on request.

1. Hybrid Stone Flakes

Flake	Code	Flake	Code
Limestone	FB-4111	Mudstone	FB-4109
Sandstone	FB-4108	Slate	FB-4105
Claystone	FB-4110	Gemstone	FB-5016
Agate	FB-4107	Juneau	FB-4205
Quartzite	FB-4102	Jawbreaker	FB-4203
Travertine	FB-4103	Blue Granite	FB-4101
Turquoise	FB-4104	Shale	FB-4106

2. Natural Blend Flakes

Flake	Code	Flake	Code
Tidalwave	FB-807	Outback	FB-517
Creekbed	FB-716	Gravel	FB-414
Nightfall	FB-715	Domino	FB-411
Hog	FB-606	Orbit	FB-310

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3. Mineral Series Flakes

Flake	Code	Flake	Code
Schist	F9307	Basalt	F9309
Pumice	F9303		

4. Accented Flakes: any Hybrid Stone, Natural Blend or Mineral Series flake supplied with 3% holographic glitter added.

7. TECHNICAL PROPERTIES

Property	Value
Solids content	100% solid (solvent-less)
Specific gravity of blend	1.4 or less
Maximum surface temperature exposure	140 °C
Finish / gloss	High gloss
VOC	Resins contain NIL, EpoDil contains 75% VOC

Dry Time at 25 °C

Parameter	Base / Body Coat	Clear Top Coat
Pot life	45 minutes at 25 °C	45 minutes at 25 °C
Tack free	2-3 hours	2-3 hours
Thin-film set	8 hours (minimum)	8 hours (minimum)
Dry cured (foot traffic)	12-24 hours	12-24 hours
Fully cured (vehicle traffic)	7 days	7 days
Re-coat	Overnight (16 hours)	Overnight (16 hours)

Multi-coat systems can be installed consecutively once the previous coat has reached thin-film set / dry cure and is accessible. Times vary with temperature, humidity and film thickness.

8. SURFACE PREPARATION

Apply only to a clean, dry surface free of dirt, grease, oil, paint, curing agents and other contaminants.

- Grind the concrete to maximise adhesion, or acid-wash to open porosity then wash, rinse and flush to neutralise.
- Run a dry test: tape a plastic sheet over a small area for 1 hour; if no moisture appears, the slab is sufficiently dry.
- Remove all loose material, then vacuum and/or blow out all dust.

Note: New concrete must cure fully (minimum 28 days) before application.

9. MIXING

- Combine the components in accordance with the product label and mix for a minimum of 3 minutes with a slow-speed drill mixer.
- Scrape the sides and base of the container so no unmixed material remains; mix until uniform and free of streaks.
- EpoDil may be added to thin the first coat if required (e.g. on cold days).
- Mix only the quantity that can be applied within the pot life.

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10. CLEANING OF TOOLS

- Clean tools and uncured spills with thinner & diluent (blend of solvents).
- In service the seamless surface is easy to maintain - easy mop and easy wipe.

11. HEALTH, SAFETY & HANDLING

- Storage: store out of direct sunlight and heat at all times.
- Shelf life: 24 months (epoxy components). Keep pails sealed when not in use.
- A Material Safety Data Sheet (SDS) is available from Shimicoat on request.

TO CONFIRM - PPE specification, hazard classification and exact shelf life of all components are not itemised here - refer to the SDS.

12. LIMITATIONS & IMPORTANT NOTES

- UV-stable system; suitable for exterior use.
- Do not apply over a patchy (possibly damp) slab - always run the dry test first.
- Do not apply if rain is expected within 24 hours; avoid hot surfaces and direct sun.
- Keep foot traffic off for at least 16 hours and vehicles off for 7 days; avoid dragging furniture for ~2 weeks.

13. CONTACT DETAILS & DISCLAIMER

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Source: Shimicoat product data and shimi.com.au (current product pages take precedence). Kit composition per the 2026 single-kit schedule.