

Shimicrete PU Cement

Polyurethane Cement Heavy-Duty Floor System



TECHNICAL DATA SHEET

1. PRODUCT DESCRIPTION & INTENDED USE

Shimicrete PU Cement is a heavy-duty polyurethane cementitious floor system for demanding industrial service - high temperature and chemical resistance with a hard, durable, slip-resistant mortar finish.

2. KIT CONTENTS & COVERAGE

Each kit covers 3-5 m² at 2-4 mm (approx. 20 m² per kit set). Consider an extra base-coat kit for substandard or damaged concrete surfaces.

Product Description	Size	Code	Qty
UVthane PLUS Polyurethane Clear	23Lt	PU	1
SHIMICRETE Cement	15Kg	SC	4
Aluminium Oxide	2Kg	AX	1
Silica Sand	20Kg	SS	1
Premium Tinted Epoxy	12Lt	PT	1
EpoDil	1Lt	ED	1

3. KEY FEATURES & BENEFITS

- Heavy-duty cementitious resin floor for demanding service
- High temperature and strong chemical resistance
- Hard, durable mortar structure with slip-resistant finish
- Suited to industrial, food and wet processing areas

4. RECOMMENDED SUBSTRATES & APPLICATIONS

Substrates: Concrete and prepared cementitious floors.

Applications: Food processing, abattoirs, breweries, kitchens, laboratories and heavy industrial floors.

Applied by: Trowel and screed.

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5. TECHNICAL PROPERTIES

Property	Value
System	Three-component cementitious resin mortar, self-levelling
Solids content	100% solid, solvent-free
Service temperature	Up to 120 °C (min 9 mm build for high-temperature service)
Chemical resistance	High - resists food / organic acids and sanitising chemicals
Vapour barrier	Acts as a temporary vapour barrier on damp substrates
Coverage	~2 kg/m ² per 1 mm thickness; typical build 2-9 mm
Substrate (min)	Compressive 20-25 MPa, tensile 1.5 MPa; concrete min 7 days old
Re-coat with finish	After 24 h, once surface humidity is below 4%
Shelf life	Over 12 months, unopened, stored cool and dry
VOC	Resins contain NIL, EpoDil contains 75% VOC

Dry Time

Temp	Pot life	Surface dry	Initial cure	Re-coat	Full cure
10 °C	45 min	12 h	24 h	24 h	7 days
20 °C	40 min	10 h	18 h	18 h	7 days
30 °C	35 min	8 h	16 h	16 h	7 days

Note: Do not dilute with EpoDil or Xylene. Use the full pre-metered unit - do not split. Substrate temperature +5 to +30 °C; relative humidity below 70% during application. Avoid water contact for 24 hours.

6. SURFACE PREPARATION

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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.*

7. 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.

8. 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.

9. 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.

10. LIMITATIONS & IMPORTANT NOTES

- Epoxy coatings may yellow in direct sun; use a UV-resistant top coat outdoors to prevent chalking and colour change.
- Do not apply over a patchy (possibly damp) slab - always run the dry test first.

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- 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.

11. 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.