

# Shimicrete PU Cement

*Polyurethane Cement Heavy-Duty Floor System*



## INSTALLATION INSTRUCTIONS

### 1. SYSTEM OVERVIEW

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.

**Note:** Read this guide and the product Safety Data Sheet before starting. Do not apply if rain is expected within 24 hours, on hot surfaces or in direct sun. Keep a wet edge at all times.

### 2. PRODUCTS & MATERIALS

- UVthane PLUS Polyurethane Clear (23Lt, code PU)
- SHIMICRETE Cement (15Kg, code SC)
- Aluminium Oxide (2Kg, code AX)
- Silica Sand (20Kg, code SS)
- Premium Tinted Epoxy (12Lt, code PT)
- EpoDil (1Lt, code ED)

### 3. TOOLS REQUIRED

- Notched trowel / pin rake
- Spike roller
- Helical / variable-speed mixer
- Grinder and saw (grooves)
- Electric drill mixer
- Buckets / mixing containers
- Vacuum or blower
- Masking tape
- PPE - gloves, eye protection, protective clothing

### 4. STEP 1 - SURFACE PREPARATION

1. Ensure the surface is clean, dry and free of dirt, grease, oil, paint, curing agents and other contaminants.

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2. Grind (or sand) the surface to a key, or acid-wash to open porosity, then wash, rinse and flush to neutralise; remove all loose material.
3. Run a dry test: tape a plastic sheet over a small area for 1 hour; if no moisture appears, the surface is sufficiently dry.
4. Vacuum / blow out all dust and mask off areas not to be coated.

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

## 5. STEP 2 - MIXING

1. Combine the components in accordance with the product label and mix for a minimum of 3 minutes with a slow-speed drill mixer.
2. Scrape the sides and base of the container so no unmixed material remains; mix until uniform and free of streaks.
3. EpoDil may be added to thin the product where the label permits. Mix only the quantity that can be applied within the pot life.

## 6. STEP 3 - APPLICATION

1. Mechanically prepare the slab (diamond grind / shot blast); cut anchor grooves at the perimeter and saw cuts across the floor, then prime with tinted or clear polyurethane.
2. Mix Part A and Part B, then gradually add the SHIMICRETE cement and mix to a smooth, homogeneous, lump-free consistency.
3. Spread with a notched trowel / pin rake to the required thickness (typically 3-4 mm) and immediately spike-roll to release trapped air.
4. For an anti-slip finish, broadcast the chosen aggregate to rejection while wet; once cured, sweep and vacuum off the excess.
5. Seal with a clear or tinted top coat once the surface humidity is below 4%.

## 7. STEP 4 - CURING & AFTERCARE

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- Avoid water contact for 24 hours; recoat / seal once surface humidity is below 4%.
- Full hardness develops over about 7 days.

## 8. WARNINGS

- Do not apply if rain is expected within 24 hours; avoid hot surfaces and direct sun.
- Do not apply over a patchy (possibly damp) slab - always run the dry test first.
- Epoxy coatings may yellow in direct sun; use a UV-resistant top coat outdoors.
- Wear appropriate PPE; ensure adequate ventilation. Refer to the SDS.

## 9. CONTACT DETAILS & DISCLAIMER

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**Disclaimer:** This installation guidance is provided in good faith and based on present knowledge and experience. As application is beyond the seller's control, the purchaser must make its own tests to determine suitability and assumes all risk of use and handling. Refer to the product label and SDS before use.