

Carbosil Patch & Repair Epoxy

Carbosil-Reinforced Epoxy Patch & Repair Kit



TECHNICAL DATA SHEET

1. PRODUCT DESCRIPTION & INTENDED USE

A clear epoxy blended with carbosil / silica fume for a strong, thixotropic patch and repair mortar that resists slump on vertical and overhead repairs.

2. KIT CONTENTS & COVERAGE

Coverage depends on repair depth and area. Consider an extra base-coat kit for substandard or damaged concrete surfaces.

Product Description	Size	Code	Qty
Ultra Clear Epoxy	6Lt	UC	1
Carbosil / Silica Fume Filler (Reinforcement & Rebuild)	5Lt	SC	1

3. KEY FEATURES & BENEFITS

- High-strength epoxy patch and repair compound
- Fills and rebuilds cracks, holes, joints and damaged concrete
- Non-shrink, hard-wearing and chemical resistant
- Can be overcoated with Shimicoat floor systems

4. RECOMMENDED SUBSTRATES & APPLICATIONS

Substrates: Concrete and prepared cementitious floors.

Applications: Filling and rebuilding cracks, holes, joints, spalls and damaged concrete prior to coating.

Applied by: Roller, brush or squeegee.

5. 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)

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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.

6. 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.

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).

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.
- Do not apply if rain is expected within 24 hours; avoid hot surfaces and direct sun.

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.