

INSTALLATION INSTRUCTIONS

SHIMISPART™ RAPID PROTECTIVE COATING

Rapid-Cure Structural Polyaspartic Coating

High-strength, rapid-curing 100 % solids polyaspartic protective coating Product code SP02

Before you start

Read these instructions and the Safety Data Sheet for each component before starting work. Do not apply if rain is expected within 24 hours, on hot surfaces or in direct sun. Keep a wet edge at all times and mix only what you can apply within the pot life.

1. SYSTEM OVERVIEW

SHIMISPART™ RAPID PROTECTIVE COATING is a high-performance, moisture-tolerant, structural polyaspartic coating for fast, reliable surface protection. It is a two-component, 100 % solids clear resin that hardens within approximately half an hour at 25 °C, giving a smooth, seamless, hard-wearing finish that can be returned to service the same day.

2. PRODUCTS & MATERIALS

Part A — Rapid Cure Polyaspartic Resin	Supplied in the kit
Part B — Aliphatic Polyisocyanate Hardener	Supplied in the kit
EpoDil thinner & diluent	For tool cleaning. Not required for dilution.

Kit sizes available

Kit size	Total volume	Part A — Resin	Part B — Hardener
Mini	1.25 L	0.75 L	0.5 L
Small	2.5 L	1.5 L	1 L
Medium	5 L	3 L	2 L
Large	7.5 L	4.5 L	3 L
XL	12.5 L	7.5 L	5 L
XXL	25 L	15 L	10 L

3. TOOLS REQUIRED

- Slow-speed electric drill and mixing paddle (750 rpm maximum)
- Clean mixing buckets or containers
- Roller frame with solvent-resistant nap, brush and squeegee
- Spiked shoes (for walking on wet film)
- Angle grinder or sander with dust extraction
- Vacuum or blower
- Masking tape
- Measuring jugs or scales
- PPE — chemical-resistant gloves, safety goggles, coveralls and a Class A1 / P2 respirator

4. STEP 1 — SURFACE PREPARATION

1. Ensure the surface is clean, dry and free of dirt, grease, oil, paint, curing compounds, laitance and all other contaminants.
2. Remove oil contamination with a degreaser and an alkaline cleaner, then pressure wash.
3. Grind or sand the surface to a mechanical key. Grinding is recommended before applying any Shimicoat polyaspartic product, as it gives the best adhesion. Where grinding is not practicable, acid-etch to open the porosity, then wash, rinse and flush to neutralise.
4. Remove all loose material, then vacuum or blow the surface clean and mask off areas that are not to be coated.
5. Run a dry test before coating: tape a plastic sheet over a small area of the surface, leave it for one hour, then lift it. If there is no moisture on either face, the surface is dry enough to coat.

Important

New concrete must be allowed to cure fully — a minimum of 28 days — before application. Refer to the Shimicoat Surface Preparation guide for further detail.

5. STEP 2 — MIXING

1. Measure the components by volume or by weight at 1.5 parts Part A to 1 part Part B.
2. Combine Part B (hardener) into Part A (resin) and mix for 2 to 3 minutes with a slow-speed drill mixer at no more than 750 rpm. Scrape the sides and base of the container so that no unmixed material remains, and continue until the blend is uniform and free of streaks.
3. For decorative work, add Shimicoat tints, metallics or glitters to Part A first and disperse fully before adding Part B.
4. Where a trowellable mortar is required, add Super Ceramic filler to the mixed resin at up to 200 % by volume. Refer to the SHIMISPART™ RAPID REPAIR Technical Data Sheet for the consistency guide.
5. The product does not require dilution. Mix only the quantity that can be applied within the 5-minute pot life.

6. STEP 3 — APPLICATION

1. Decant the mixed resin into a roller tray or pour it directly onto the prepared surface immediately after mixing — do not leave it standing in the mixing bucket, where the exotherm will shorten the pot life further.
2. Apply by roller, brush or squeegee. On horizontal surfaces, pour and spread with a squeegee, then back-roll to even the film.
3. Use steady, long strokes. Do not overwork the roller or push it too quickly, as this traps air and causes bubbles in the film.
4. Maintain a wet edge at all times and work to a natural break. Because the pot life is 5 minutes, plan the work area and have a second operator mixing if the area is large.
5. Allow 1 hour before recoating. Lightly abrade and vacuum between coats where the recoat window has been exceeded.

7. STEP 4 — CURING & AFTERCARE

Surface temperature	Pot life (min)	Surface dry (h)	Initial cure (h)	Recoat (h)	Full cure (days)
10 °C	10	1.5	2	2	7
20 °C	7	1	1.5	1.5	7
25 °C	5	0.5	1	1	7
30 °C	5	0.5	1	1	7

- Keep foot traffic off the finished surface for at least 16 hours.

- Keep vehicles off for at least 7 days. Full hardness develops over 7 days.
- Where vehicles are parked in one position, place a mat under each tyre for the first few weeks — hot tyres can mark a newly finished surface.
- Clean the finished surface with a soft broom or mop and a pH-neutral detergent. Do not use aggressive solvents or abrasive pads.

8. WARNINGS

- Do not apply if rain is expected within 24 hours of application.
- Not recommended for use below 10 °C or above 35 °C.
- Avoid application to hot surfaces or in direct sun. Never leave containers in direct sun during application — heat sharply shortens the pot life.
- Do not apply if the concrete has a patchy appearance, which suggests moisture is present. Carry out the dry test first and apply only when the surface is dry.
- New concrete must be allowed to cure fully, a minimum of 28 days, before application.
- Keep foot traffic off the coating for at least 16 hours and vehicles off for at least 7 days. Full hardness develops over 7 days.
- Heavy vehicles with hot tyres can damage a newly coated floor. Place a mat under each tyre for the first few weeks where vehicles are parked in one position.
- All polyaspartic coatings may yellow slightly over time. Overcoat with SHIMISPART™ Topcoat UV Shield where long-term colour stability outdoors is required.
- Keep containers sealed when not in use.
- Wear appropriate personal protective equipment and ensure adequate ventilation. Part B contains an aliphatic polyisocyanate — read the Safety Data Sheet before use.

9. CONTACT DETAILS & DISCLAIMER

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Telephone	(08) 9434 3302
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Safety Data Sheet	A Safety Data Sheet for each component of this product is available at www.shimi.com.au or on request from info@shimi.com.au . Read it before use.

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