



Epoxy Terrazzo Flooring

SYSTEM FAMILY

Decorative resin flooring / application methodology

TYPE

Poured, ground & polished epoxy terrazzo

NOMINAL BUILD

6–12 mm

1. SCOPE & SYSTEM DESCRIPTION

This Application Data Sheet describes POLYZEN's method for installing **epoxy terrazzo** — a poured composite of epoxy binder and decorative marble / glass / metal aggregate, mechanically ground and polished to a seamless, jointless, high-durability decorative floor.

It is a **brand-flexible application guide** applicable with a POLYZEN system product or a client-approved equivalent of the same type. Divider strips can be set for patterns, colour breaks and movement control.

2. SUBSTRATE REQUIREMENTS

- New concrete cured a minimum of 28 days; sound and structurally stable.
- Compressive strength typically ≥ 25 N/mm² and surface tensile (pull-off) ≥ 1.5 N/mm² (indicative; per project).
- Substrate dry and free of oil, grease, curing compounds and previous coatings.

3. SURFACE PREPARATION

- Mechanically prepare by diamond grinding or captive shot-blasting to a clean, open profile (typical CSP 2–3). Acid etching is not accepted.
- Remove laitance, contamination and unsound material; repair cracks, spalls and joints with compatible repair mortars.
- Assess substrate moisture per **ASTM F2170** (in-situ RH); treat where readings exceed the selected system's limit.
- Vacuum the prepared surface immediately before priming.

4. ENVIRONMENTAL CONDITIONS

- Substrate & ambient temperature 10–35 °C; substrate ≥ 3 °C above dew point throughout application and initial cure.
- Relative humidity within the selected material's limits; do not apply in falling temperatures.
- Protect the area from dust, water, direct sunlight and traffic during application and cure.

5. MATERIALS

Materials: POLYZEN epoxy terrazzo binder & aggregate system (POLYZEN epoxy terrazzo binder system) — **or a client-approved equivalent** of the specified type meeting the project specification and standards. Exact mix ratios, consumption, film thickness and cure times are per the **selected material's data sheet**.

6. MIXING

- Pre-condition components to 15–25 °C.
- Power-mix resin and hardener to a homogeneous, lump-free consistency using a low-speed mixer; add graded filler/aggregate where used.
- Mix full kits only, exactly as supplied — no site additions of solvent or water. Respect the material's pot life.

7. APPLICATION PROCEDURE

- **Prime:** apply epoxy primer to the prepared substrate.
- **Divider strips (optional):** set metal / plastic divider strips to the design layout, colour breaks and movement joints.
- **Place terrazzo:** pour and trowel the epoxy terrazzo mortar (binder + graded aggregate) to 6–12 mm; consolidate and level.
- **Cure & grind:** after cure, coarse-grind to expose aggregate, then progress through finer grits.
- **Grout & polish:** grout pinholes with matching resin, cure, and polish to the specified gloss.
- **Seal:** apply a penetrating / film seal for stain resistance and gloss.

8. COVERAGE, COATS & THICKNESS

- Primer ~0.3–0.4 kg/m²; terrazzo mortar system-based per thickness; grout & seal per specification (indicative). Per the selected material's data sheet.

9. CURING & RETURN TO SERVICE

- Light foot traffic typically ~24 h at 25 °C (indicative).
- Return to service typically ~48–72 h at 25 °C (indicative).
- Full cure typically ~7 days at 25 °C (indicative); cure extends at lower temperatures — per the selected material's data sheet.

10. FINISHING & DETAILING

- Divider-strip patterns and colour design as specified.
- Gloss level by polishing grit sequence; slip evaluated per **ANSI A326.3 / ASTM E303**.

11. QUALITY-CONTROL CHECKPOINTS

- Record substrate moisture (ASTM F2170), temperature and dew point before each application.
- Verify surface profile, cleanliness and primer coverage.
- Check applied thickness / broadcast rate during placement.
- Spot-check adhesion and visual finish; log ambient conditions through cure.

12. DO'S & DON'TS

Do

- Respect pot life and overcoat windows.
- Maintain a wet edge and continuous bays.
- Control temperature, dust and dew point.
- Follow the selected material's data sheet.
- Set divider strips true to line and level.

Don't

- Don't add solvent or water to thin the mix.
- Don't apply over damp or contaminated substrate.
- Don't exceed pot life or apply below dew point.
- Don't mix products from different systems.

13. CLEANING & MAINTENANCE

- Allow full cure before wet cleaning.
- Routine dust-mop and neutral-pH auto-scrub; avoid harsh abrasives and aggressive solvents.
- Renew the seal coat periodically in high-traffic areas.

14. HEALTH, SAFETY & ENVIRONMENT

- Uncured epoxy resins and amine hardeners can cause skin/eye irritation and sensitisation — wear chemical-resistant gloves, goggles and protective clothing.
- Ensure adequate ventilation during mixing and application; control spills and prevent uncured material entering drains.
- Refer to the selected material's Safety Data Sheet (SDS) for full handling, first-aid, spill and disposal information.

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Disclaimer: this interim Application Data Sheet describes POLYZEN's typical application methodology for this class of system and is provided in good faith. It is a brand-flexible application guide; exact mix ratios, consumption, film thickness and cure times are governed by the selected material's data sheet. All parameters are typical/indicative and are confirmed in the project-specific Method Statement. POLYZEN reserves the right to revise this document; the latest version supersedes all previous.