



Decorative Epoxy (Metallic / Veined / Flake)

SYSTEM FAMILY

Decorative resin flooring / application methodology

TYPE

Decorative seamless epoxy floor

NOMINAL BUILD

1-2 mm system

1. SCOPE & SYSTEM DESCRIPTION

This Application Data Sheet describes POLYZEN's method for installing **decorative epoxy floors** — metallic, veined-marble or flake (vinyl chip) effects — as seamless, sealed, jointless floors combining a premium look with the hygiene of resin.

It is a **brand-flexible application guide** applicable with a POLYZEN system product or a client-approved equivalent of the same type.

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).
- Falls, drainage and movement / isolation joints identified and detailed before starting.
- 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 epoxy repair mortars.
- Assess substrate moisture per **ASTM F2170** (in-situ RH); apply a moisture-mitigation primer 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 decorative epoxy system (**ZENDÉCOR Aura / Veina / Fleck**) — primer, body and any seal/top coat from one compatible 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 Technical Data Sheet**.

6. MIXING

- Pre-condition components to 15-25 °C.
- Power-mix the resin, add the hardener and mix thoroughly, then add graded filler/aggregate (where used) to a homogeneous, lump-free, streak-free consistency with a low-speed mixer.

- Mix full kits only, exactly as supplied — no part-mixing, no site additions of solvent or water. Respect the material's pot life.

7. APPLICATION PROCEDURE

- **Prime:** apply epoxy primer to the prepared substrate.
- **Decorative base / media:** apply the pigmented base and work the decorative media — metallic pour, veining, or flake broadcast — to the chosen effect.
- **Consolidate:** for flake, scrape back and vacuum to a uniform texture.
- **Seal:** apply one or more clear seal coats; use a **UV-stable PU seal** for daylight-exposed areas to reduce ambering; set anti-slip level as required.

8. COVERAGE, COATS & THICKNESS

- Primer ~0.3-0.4 kg/m²; base/media and seal system-based per specification (indicative).
- Number of seal coats and consumption per the selected material's TDS.

9. CURING & RETURN TO SERVICE

- Light foot traffic typically ~24 h at 25 °C (indicative).
- Return to service / wheeled traffic typically ~48-72 h at 25 °C (indicative).
- Full mechanical & chemical cure typically ~7 days at 25 °C (indicative). Cure times extend at lower temperatures — always per the selected material's data sheet.

10. FINISHING & DETAILING

- UV-stable PU seal recommended for daylight areas.
- Anti-slip texture optional; 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 wet-film / applied thickness 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 for ratios & cure.

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 to extend service life.

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.

POLYZEN INDIA PVT. LTD.

Plot No. 7 & 8, S V Heights, Haritha Vanam Colony Road, Bachupally, Hyderabad, Telangana – 500090
Phone / WhatsApp: 9640126496 | Email: info@polyzen.in | Web: polyzen.in

Doc Ref: POLYZEN/ADS/DEC-EPOXY

Interim v1 | 2026

Decorative Epoxy (Metallic / Veined / Flake)

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.