



ZENDÉCOR Aura ZD-M

RANGE

ZENDÉCOR (Decorative)

MATERIAL FAMILY / GROUP

Decorative epoxy / metallic

CHEMISTRY

metallic epoxy decorative floor system

1. PRODUCT DESCRIPTION

ZENDÉCOR Aura ZD-M is a metallic epoxy decorative floor system that creates seamless, three-dimensional metallic effects with a high-gloss, jointless finish. Each floor is a unique, hand-worked design sealed for durability.

Applied over prepared and primed concrete and protected with a clear seal coat, Aura combines a premium decorative appearance with the hygiene and cleanability of a seamless resin floor. Installed by POLYZEN designer-applicator teams.

2. SYSTEM (LAYER BUILD)

The ZENDÉCOR Aura system is applied by POLYZEN as one integrated installation:

| LAYER | FUNCTION | DESCRIPTION |
|------------------------------------|--------------------|--|
| 1 — Primer Coat | Adhesion | Epoxy primer sealing the prepared substrate. |
| 2 — Decorative Base / Media | Appearance layer | Pigmented epoxy base carrying the decorative media (metallic / veined / flake / quartz) worked to the chosen effect. |
| 3 — Clear Seal / Top Coat | Protection & gloss | Clear epoxy or UV-stable PU seal coat(s) for wear resistance, gloss and cleanability; anti-slip texture optional. |

A UV-stable PU seal is recommended where daylight exposure is expected, to reduce ambering of the clear coat.

3. TYPICAL APPLICATIONS & SECTORS

- Showrooms & retail
- Hospitality & restaurants
- Corporate offices & lobbies
- Experience & brand centres
- Studios & galleries
- Premium residential

4. KIT COMPOSITION

| COMPONENT | DESCRIPTION |
|--------------------------|--|
| Part A — Resin | Clear/pigmented bisphenol-A epoxy base |
| Part B — Hardener | Cycloaliphatic amine curing agent |
| Metallic Media | Mica / metallic pigment effect pack |
| Seal Coat | Clear epoxy or UV-stable PU seal |

Supplied as a pre-measured multi-part kit. Mix full kits only, exactly as supplied — no part-mixing, no site additions. Kit pack size: **to be confirmed**. The formulation is proprietary to POLYZEN and is not disclosed.

5. TYPICAL / INDICATIVE PROPERTIES

Typical / indicative values — not a guaranteed specification; confirmed against POLYZEN batch testing & project commissioning.

| PROPERTY | TEST METHOD | TYPICAL / INDICATIVE VALUE |
|---------------------------------|-------------|--|
| Finish | — | Metallic, seamless, high-gloss (custom effects) |
| Solids content | — | High-solids / solvent-free class (indicative) |
| Applied thickness | — | ~1.5-2 mm system (indicative) |
| Coverage / consumption | — | system-based; per project specification (indicative) |
| Pot life (mixed kit) | — | ~25-40 min at 25 °C (indicative; shorter when warmer) |
| Overcoat interval | — | ~12-24 h at 25 °C (indicative) |
| Light foot traffic | — | ~24 h at 25 °C (indicative) |
| Full mechanical / chemical cure | — | ~7 days at 25 °C (indicative) |
| Application temperature | — | 10-35 °C; substrate ≥ 3 °C above dew point (indicative) |
| Substrate moisture | ASTM F2170 | Within system limits per project assessment (indicative) |
| Hardness, Shore D | ASTM D2240 | ~78-85 (indicative) |
| Compressive strength | ASTM C579 | ~50-70 MPa (indicative) |
| Pull-off adhesion to concrete | ASTM D4541 | >1.5 N/mm ² , typically cohesive failure in concrete (indicative) |
| Abrasion resistance (Taber) | ASTM D4060 | ~50-90 mg loss, CS-17, 1 kg, 1000 cycles (indicative) |
| Chemical resistance | ASTM C267 | Resists dilute household & process chemicals; sealed finish aids cleanability (indicative) |
| VOC content | — | Low-VOC / solvent-free class (indicative) |

6. SURFACE PREPARATION

- **Concrete age & strength:** new concrete cured a minimum of 28 days; sound, structurally stable substrate of adequate strength for the intended service.
- **Mechanical preparation:** diamond grinding or captive shot-blasting to remove laitance, curing compounds and contamination, producing a clean, open-textured profile. Acid etching is not accepted.
- **Moisture:** substrate assessed per ASTM F2170 (in-situ RH) before application; moisture-mitigation primer specified where readings exceed system limits.
- **Repairs:** cracks, joints and defects repaired with compatible epoxy repair mortars before priming.
- **Priming:** full-coverage primer applied to the prepared substrate; the body coat is applied within the primer's overcoat window.

7. APPLICATION (OVERVIEW)

- **Mixing:** pre-condition kits to 15-25 °C. Power-mix components in sequence to a homogeneous, lump-free consistency using a low-speed mixer. Mix full kits only, exactly as supplied.
- **Placement:** apply by the specified method (roller / squeegee-and-backroll / notched trowel + spike-roll) at the stated rate; maintain a wet edge.
- **Intervals:** respect pot life, overcoat windows and cure times; plan pours in continuous bays to avoid day joints in visual areas.

- **Environment:** control ventilation, dust and direct sunlight during application and initial cure; protect from water and contamination until full cure.

A full project-specific Method Statement (bay layout, joint detailing, coving, quality checkpoints) is issued by POLYZEN for every installation.

8. STANDARDS & COMPLIANCE

The ZENDÉCOR Aura system supports compliance with the following (subject to system design, project detailing & site testing):

- **Performance test methods:** ASTM C579 (compressive), ASTM D4541 (pull-off adhesion), ASTM D4060 (Taber abrasion), ASTM C267 (chemical resistance), ASTM D2240 (Shore hardness), ASTM F2170 (substrate relative humidity).
- **Slip resistance (where a textured finish is specified):** evaluated per ANSI A326.3 (DCOF) and ASTM E303 (pendulum), subject to system design, footwear & site testing.

9. PACKAGING, STORAGE & SAFETY

- **Packaging:** pre-measured multi-part kits. Pack size: **to be confirmed**.
- **Storage:** keep in original sealed containers, off the ground, in a dry covered area at 5–30 °C, away from direct sunlight, heat and moisture. Shelf life per batch labelling.
- **Safety:** uncured resins and hardeners can cause skin/eye irritation and sensitisation. Wear PPE (chemical-resistant gloves, goggles, protective clothing); ensure ventilation. Do not allow uncured material to enter drains.
- **SDS:** refer to the product Safety Data Sheet before use.

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Doc Ref: POLYZEN/TDS/ZD-M

Interim v1 | 2026

ZENDÉCOR Aura — Metallic Epoxy Decorative Floor

Disclaimer: this interim Technical Data Sheet is given in good faith based on POLYZEN's current knowledge of this class of product. All values are typical / indicative only and do not constitute a guaranteed specification, warranty or certification. Final performance depends on substrate condition, system design, workmanship and service conditions, and is confirmed through POLYZEN batch testing and project commissioning. POLYZEN reserves the right to revise this document; the latest version supersedes all previous.