



ZENDÉCOR AURA ZD-M

RANGE

ZENDÉCOR (Decorative epoxy flooring)

SYSTEM TYPE

Metallic epoxy system

NOMINAL BUILD

2 mm · 3 mm variant

1. SYSTEM DESCRIPTION

ZENDÉCOR AURA ZD-M is a metallic epoxy floor: a clear, blush-resistant epoxy carrying pearl and metallic pigment, poured over a colour base so the pigment moves, gathers and settles into shifting, three-dimensional depth under a high-gloss surface.

The metallic layer is deliberately unfilled — the pigment must travel freely in the clear resin; a filled material would freeze the movement and flatten the effect.

Every AURA floor is unique. The pigment movement is created during application, so a sample shows the colour family and character, not a pattern that will be reproduced.

2. RECOMMENDED USES

- Showrooms and display floors
- Lobbies, receptions and feature spaces
- Boutiques and retail interiors
- Cafés, studios and galleries
- Residential statement floors
- Offices and client-facing areas

3. FEATURES & BENEFITS

- Shifting, three-dimensional metallic depth
- High-gloss, seamless, light-reflective surface
- Clear blush-resistant binder — no haze
- Colour base coat sets the tone of the floor
- Every floor one of a kind
- Protective clear seal against scuffing

4. SYSTEM BUILD-UP

#	Layer	Product / operation	Consumption
1	Surface preparation	Diamond grinding / shot blast to CSP 3	—
2	Primer	ZENPRIME 100	0.18 kg/m ²
3	Levelling screed	ZENLEVEL 200 — 1.0 or 2.0 mm	2.00 / 4.00 kg/m ²
4	Grinding	Full-face diamond grind of the cured screed + vacuum	—
5	Colour base coat	ZENTOP CL 100 + Part D	0.30 kg/m ²
	— Part D pigment	Dispersed into the base coat	0.016 kg/m ²
6	Metallic layer	ZENTOP CL 100 + pearl / metallic pigment	0.90 kg/m ²
	— Pearl / metallic pigment	Dispersed into the metallic layer	0.06 kg/m ²
7	Seal coat	ZENTOP CL 100, clear	0.45 kg/m ²

Consumption figures are practical site values including normal wastage; use them for estimating.

5. SYSTEM DATA

Typical / indicative values. Figures below are typical for this class of system and are stated as minimum declared values, not as a guaranteed specification. Project values are confirmed by POLYZEN batch testing and project commissioning.

Property	Value	Basis
Nominal system thickness	~2 mm with 1 mm screed	~3 mm with 2 mm screed
Total consumption	3.91 kg/m ² (1 mm screed)	5.91 kg/m ² (2 mm screed)
Finish	Smooth, high gloss	Metallic, reflective
Appearance	3D metallic movement	Unique to every floor
Slip resistance	Standard — smooth gloss	—
Gloss @ 60°	90 – 100 GU	Typical
Hardness, Shore D	80 – 85	ASTM D2240 — typical
Service temperature, dry heat	–20 to +60 °C	Typical
UV exposure	Interior use	Direct sun through glazing can amber epoxy over time
Component data	Per component TDS	See section 10

6. CHEMICAL RESISTANCE

Rating	Media
Resistant	Water and salt water · most salt solutions · mineral oils, greases and hydraulic fluids · diesel and petrol · brake fluid · neutral and alkaline detergents · dilute alkalis · dilute mineral acids to 10%
Intermittent spillage	Dilute acetic acid · ethanol and isopropyl alcohol · hypochlorite bleach · dilute hydrogen peroxide · hot water spillage
Not resistant	Concentrated nitric and sulphuric acids · formic acid · phenol · chlorinated solvents · ketones such as acetone and MEK

Ratings are for short intermittent contact at ambient temperature followed by cleaning, and are typical for the binder class. For continuous immersion or aggressive cleaning regimes, refer the specific media to POLYZEN before specifying.

7. SUBSTRATE REQUIREMENTS & PREPARATION

Requirement	Value	Standard
Concrete age	Minimum 28 days, or until the slab is dimensionally stable	—
Concrete compressive strength	Minimum 25 MPa	IS 516 / ASTM C39
Substrate pull-off strength	Minimum 1.5 MPa	ASTM D7234 / C1583
Surface profile after preparation	CSP 3 or greater	ICRI 310.2R
Surface cleanliness	Free of laitance, curing compounds, oil, grease and all bond-inhibiting matter	SSPC-SP 13 / NACE No. 6
Substrate moisture — in-situ RH	Maximum 75% RH	ASTM F2170
Substrate moisture — vapour emission	Maximum 5 lb / 1000 ft² / 24 h	ASTM F1869
Substrate moisture — site check	No visible moisture under plastic sheet	ASTM D4263
Where moisture exceeds the limits	Resin moisture-mitigation membrane before priming	ASTM F3010

8. CURING & PROTECTION

Foot traffic	24 hours at 25°C
Light vehicles	48 hours at 25°C
Full mechanical and chemical cure	7 days at 25°C
Protection during cure	Protect from traffic, water, spillage and dust for at least 48 hours. Do not wash the floor within 7 days.

9. INSTALLATION

Conditions	Ambient and material temperature 0 – 35°C; relative humidity below 65%; substrate at least 3°C above dew point. Application in monsoon conditions is not recommended.
Priming and screed	ZENPRIME 100 (overcoat while tacky, 3 – 4 h), then ZENLEVEL 200 at 1.0 or 2.0 mm, spike rolled.
Grinding	After the screed has cured, diamond grind the whole face flat, then vacuum. This removes tool marks, opens the surface and resets the overcoat window — the decorative work proceeds on a fresh face regardless of when the screed was placed.
Colour base coat	Disperse the shade pigment into ZENTOP CL 100 Part A, add Part B, mix and apply by squeegee and back-roller at 0.30 kg/m². This seals the ground face and lays the base colour of the floor.
Metallic layer	Disperse the pearl / metallic pigment fully into ZENTOP CL 100 Part A, add Part B and mix. Pour in ribbons and spread with a squeegee; work the effect with a roller, blower or solvent-mist technique as designed. The pattern is created now — it cannot be adjusted after gelation.
Seal coat	After 16 – 24 hours, apply the clear seal by squeegee and back-roller. This deepens the effect and takes the scuffing instead of the metallic layer.
Shade note	On light and silver shades, the colour base coat must be opaque and even — any shadow beneath shows through the clear metallic layer.

10. MAINTENANCE

Routine cleaning	Dust mop or soft broom daily. Wet mop with warm water and a neutral or mild alkaline detergent. Rinse; do not leave detergent residue to dry on the floor.
Never use	Acid-based cleaners, abrasive powders, steel wool or coarse scrubbing pads — these dull the gloss permanently.
Spillage	Clean promptly, particularly staining media, strong chemicals and hot liquids.
Protection in service	Walk-off mats at external entrances; soft wheels or pads under trolleys and furniture; do not drag pallets or machinery across the floor.
Periodic	Inspect high-traffic lanes annually. Gloss worn by traffic is restored with a ZENTOP CL 100 refresh coat after mechanical abrasion — a fraction of the cost of a new floor.

11. COMPONENT PRODUCTS

Component product	Pack	Refer
ZENPRIME 100	7.5 kg kit	POLYZEN/TDS/ZP-100
ZENLEVEL 200	22.5 kg kit	POLYZEN/TDS/ZL-200
ZENTOP CL 100	7.5 kg kit	POLYZEN/TDS/ZT-CL100
Metallic / pearl pigment pack	Pack size to be finalised	Supply pack under finalisation

Each component is supplied as a pre-measured pack and is covered by its own technical data sheet. Mix full kits only; no part-mixing and no site additions.

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Basis of data. Values attributed to supplier data are taken from the raw material manufacturer's technical data sheet. Calculated values are design values derived from component densities and mixing ratio. Values marked typical are typical for this class of material and are stated as minimum declared values, not as a guaranteed specification; they are confirmed by POLYZEN batch testing and project commissioning.
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