



ZENDÉCOR FLECK ZD-F

RANGE

ZENDÉCOR (Decorative epoxy flooring)

SYSTEM TYPE

Flake-broadcast epoxy system

NOMINAL BUILD

2 mm · 3 mm variant

1. SYSTEM DESCRIPTION

ZENDÉCOR FLECK ZD-F is a flake-broadcast epoxy floor: decorative vinyl chips are scattered into a wet pigmented base coat, sealed under clear epoxy once cured. The multi-colour fleck adds depth, hides dust and wear between cleans, and gives the surface a light, comfortable texture.

The broadcast can be partial — fleck scattered over a visible base colour — or full, where the chips close over the base entirely. Full broadcast wears longer; partial shows more of the base shade.

It is the practical decorative floor: colour and character where the space still has to work every day.

2. RECOMMENDED USES

- Retail units and stores
- Clinics, labs and healthcare corridors
- Commercial units and offices
- Cafeterias and break-out areas
- Institutional and education floors
- Garages and utility spaces wanting a finished look

3. FEATURES & BENEFITS

- Multi-colour decorative fleck
- Hides dust, lint and light wear between cleans
- Light texture — comfortable, slip-friendly
- Partial or full broadcast, chosen per project
- Vinyl chips — colour through the chip, not painted on
- Clear seal locks the fleck and takes the wear

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	0.40 kg/m ²
	— Part D pigment	Dispersed into the base coat	0.020 kg/m ²
6	Flake broadcast	Vinyl flakes into the wet base	0.45 kg/m ²
7	De-fleck	Sweep + vacuum + scrape high chips after cure	—
8	Seal coat	ZENTOP CL 100, clear	0.45 kg/m ²

Consumption figures are practical site values including normal wastage; use them for estimating. Broadcast figures are the quantity retained — broadcasting to refusal needs 5 – 7 kg/m² applied, and the excess is recovered and reused.

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	3.50 kg/m ² (1 mm screed)	5.50 kg/m ² (2 mm screed)
Finish	Lightly textured, satin-gloss	Fleck speckle
Appearance	Multi-colour decorative flake	Blend chosen per project
Slip resistance	Enhanced — light texture	—
Flake	Vinyl chips, blend and size per order	Supply pack under finalisation
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, apply by squeegee and back-roller at 0.40 kg/m² — slightly heavier than a plain sealer, so the chips have a wet bed to anchor in.
Flake broadcast	Scatter the flakes upward by hand so they fall flat onto the wet coat — throwing at the floor stands them on edge. Broadcast to the agreed density, partial or full, while the base is wet.
De-fleck	After cure, sweep and vacuum loose flakes and pass a floor scraper lightly to fell any chips standing proud.
Seal coat	ZENTOP CL 100 clear by squeegee and back-roller. One seal keeps more texture; a second seal gives a smoother, easier-clean face.

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
Vinyl flakes	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.

POLYZEN INDIA PVT. LTD.

Plot No. 7 & 8, S V Heights, Haritha Vanam Colony Road, Bachupally, Hyderabad, Telangana – 500090
Phone / WhatsApp: +91 80741 26496 | info@polyzen.in | polyzen.in

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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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