



ZENFLOR COAT ZF-100

RANGE

ZENFLOR (Industrial epoxy flooring)

SYSTEM TYPE

Self-levelling epoxy system

NOMINAL BUILD

1 mm

1. SYSTEM DESCRIPTION

ZENFLOR COAT ZF-100 is the entry grade of the ZENFLOR range: a two-layer, solvent-free epoxy floor comprising a penetrating primer and a 1 mm pigmented self-levelling wearing coat.

It seals and toughens concrete against wear, dust and light chemical exposure, and replaces thin roller coatings where a genuinely seamless, measurable build is wanted at an economical rate.

Because the primer is overcoated the same working day, a ZF-100 floor is completed in a single continuous operation, bay by bay.

2. RECOMMENDED USES

- Warehouses and storage areas
- Garages and service areas
- Light to medium duty industrial floors
- Dust-proofing of concrete slabs
- Utility corridors and plant rooms
- Re-topping of sound existing resin floors

3. FEATURES & BENEFITS

- Seamless, easy-clean 1 mm wearing surface
- Completed in one working day, bay by bay
- Solvent free — 100% solids
- Adhesion on damp and green concrete via the primer
- Pigmented — no separate colour coat
- Custom shades matched to order on larger projects

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	Wearing coat	ZENTOP SL 100 — 1.0 mm	2.00 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	1.0 mm	Design
Total consumption	2.18 kg/m ²	Design
Finish	Smooth, gloss	Anti-skid available on request
Shades	Confirmed at order stage from current availability; custom shades matched to order on larger projects	—
Slip resistance	Standard — smooth gloss	—
Hardness, Shore D	78 – 82	ASTM D2240 — typical
Pull-off adhesion	> 1.5 MPa, concrete failure	ASTM D4541 — typical
Service temperature, dry heat	–20 to +60 °C	Typical
VOC	Solvent free	Supplier data
Wearing surface data	Per ZENTOP SL 100 TDS	POLYZEN/TDS/ZT-SL100

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	Apply ZENPRIME 100 by roller or spreader at 0.15 – 0.20 kg/m². Porous patches receive a second pass. Overcoat the primer 3 – 4 hours after application, while it is still tacky. If the window is missed and the primer has cured hard, abrade mechanically and solvent wipe before proceeding.
Wearing coat	Mix the full ZENTOP SL 100 kit, pour, spread with a pin screed and spike roll immediately. Maintain a wet edge; work in continuous bays.
Batch discipline	Mix full kits only. Keep the mixing time identical for every batch — uneven mixing shows as shade variation.

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
ZENTOP SL 100	19.9 kg kit	POLYZEN/TDS/ZT-SL100

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.

Statement of responsibility. The information given reflects present knowledge and experience. It does not relieve the user of the responsibility to verify, by their own trials, that the product is suitable for the intended purpose and conditions of use. Final performance depends on substrate condition, system design, workmanship and service conditions. **Application outside the conditions stated in this sheet voids the written warranty.** Site services, where provided, do not constitute supervisory responsibility. Refer to the Safety Data Sheet before use.