POLYZEN
WHERE SOVEREIGN SURFACES RULE

TECHNICAL DATA SHEET
INTERIM

ZENFLOR Coat ZF-100

RANGE
ZENFLOR (Epoxy)

MATERIAL FAMILY / GROUP
Epoxy protective coating / high-build

CHEMISTRY
2-part high-build epoxy floor coating

1. PRODUCT DESCRIPTION

ZENFLOR Coat ZF-100 is a two-component, high-build epoxy floor coating for industrial and commercial concrete floors. It cures to a seamless, hard-wearing, easy-to-clean protective film with good abrasion and chemical resistance.

The high-build option provides enhanced surface protection over prepared concrete and screeds, eliminating the dusting and cleaning problems of bare concrete. Installed by POLYZEN as a complete supply-and-apply floor system.

2. SYSTEM (LAYER BUILD)

The ZENFLOR Coat system is applied by POLYZEN as one integrated installation:

LAYER	FUNCTION	DESCRIPTION
1 — Primer Coat	Penetration & adhesion	Low-viscosity epoxy primer sealing the substrate and anchoring the system.
2 — High-Build Coat	Protective wear film	ZENFLOR Coat applied in one or two coats by roller / squeegee to the specified build.
3 — Anti-slip / Seal (optional)	Texture / finish	Optional broadcast aggregate or seal coat where anti-slip texture or added durability is specified.

3. TYPICAL APPLICATIONS & SECTORS

- Warehousing, logistics & storage
- Light-to-medium manufacturing
- Workshops & maintenance bays
- Commercial & back-of-house areas
- Dispatch & packing zones
- General protective floor coating

4. KIT COMPOSITION

COMPONENT	DESCRIPTION
Part A — Resin	Bisphenol-A epoxy resin base
Part B — Hardener	Cycloaliphatic amine curing agent

Supplied as a pre-measured two-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	—	Gloss; wide colour range (RAL)
Solids content	—	High-solids / solvent-free class (indicative)
Applied thickness	—	~200–400 microns per coat, high-build (indicative)
Coverage / consumption	—	~0.3–0.5 kg/m² per coat at stated DFT (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	~80–85 (indicative)
Compressive strength	ASTM C579	~60–80 MPa (indicative)
Pull-off adhesion to concrete	ASTM D4541	>1.5 N/mm², typically cohesive failure in concrete (indicative)
Abrasion resistance (Taber)	ASTM D4060	~40–80 mg loss, CS-17, 1 kg, 1000 cycles (indicative)
Chemical resistance	ASTM C267	Resists dilute acids, alkalis, mineral oils & common spillage under intermittent exposure (indicative; project schedule to be reviewed)
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 ZENFLOR Coat 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 two-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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