

ZENTOP SL 100

RANGE

ZENTOP (Wearing coats)

MATERIAL FAMILY

Self-levelling epoxy wearing coat

CHEMISTRY

Solvent-free epoxy, filled, pigmented

1. PRODUCT DESCRIPTION

ZENTOP SL 100 is a four-component, solvent-free, pigmented self-levelling epoxy wearing coat for a nominal applied thickness of 0.7 – 1.4 mm.

The quartz filler is graded to a maximum particle size of 0.3 mm so that no aggregate telegraphs through at this thickness.

The material is poured, spread with a pin screed or notched trowel and immediately spike rolled, producing a seamless, closed, hygienic and easily cleaned surface.

2. RECOMMENDED USES

- Light to medium duty industrial floors
- Warehouses and storage areas
- Assembly, packing and engineering areas
- Pharmaceutical, life science and clean room areas
- Food and beverage processing areas
- Re-topping of sound existing resin floors

3. FEATURES & BENEFITS

- Seamless, closed, hygienic surface
- Filler graded to the layer thickness
- Pigmented — no separate colour coat
- Solvent free — 100% solids
- Bag and colour pack sized to one kit
- Anti-skid finish available on request

4. KIT COMPOSITION

Component	Qty	Description
Part A — Base	5.0 kg	Epoxy resin base
Part B — Hardener	2.5 kg	Amine curing agent
Part C — Filler	12.0 kg	Graded quartz, max particle size 0.3 mm
Part D — Pigment	0.4 kg	Colour pack
Kit total	19.9 kg	Part C bag is sized to one kit

Supplied as a pre-measured kit. Mix full kits only, exactly as supplied — no part-mixing and no site additions. The Part C bag weight matches one kit, so nothing is weighed on site. The filler grading is proprietary to POLYZEN and is not disclosed.

5. PRODUCT DATA

Typical / Indicative values. Figures below are typical for this class of material 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	Method / basis
Part C	Graded quartz filler	Visual
Maximum particle size, Part C	0.3 mm	Grading specification
Finish	Smooth, gloss	Anti-skid available on request
Shades	Confirmed at order stage from current availability; custom shades matched to order on larger projects	—
Gloss @ 60°	80 – 90 GU	Typical
Mixing ratio, A : B	100 : 50 by weight	Fixed
Part C / Part D addition	Full bag 12.0 kg / full pack 0.4 kg	Fixed, no site weighing
Mixed density	1.72 g/cc	Calculated
Solids content	100 % — solvent free	Typical
Nominal applied thickness	0.7 – 1.4 mm	Design range
Pot life @ 25°C / 35°C	30–40 / 15–20 minutes	Typical
Surface dry @ 25°C	4 – 6 hours	Typical
Touch dry @ 25°C	8 – 12 hours	Typical
Foot traffic @ 25°C	24 hours	Typical
Vehicular traffic @ 25°C	48 hours	Typical
Overcoating interval @ 25°C	16 – 24 hours	Typical
Full mechanical & chemical cure	7 days	Typical
Shelf life, A / B / C	12 / 12 / 24 months	Typical
Compressive strength	≥ 50 MPa	ISO 604 — typical
Flexural strength	≥ 20 MPa	EN ISO 178 — typical
Tensile strength	≥ 12 MPa	EN ISO 527 — typical
Hardness, Shore D	78 – 82	ASTM D2240 — typical
Abrasion resistance	≤ 90 mg loss	ASTM D4060, CS-17, 1 kg, 1000 cycles — typical
Pull-off adhesion to concrete	> 1.5 MPa, concrete failure	ASTM D4541 — typical
Modulus in flexure	5 – 8 GPa	EN ISO 178 — typical
Water absorption, 24 h	< 0.5 %	ASTM D570 — typical
Shrinkage on cure	< 0.1 %	Typical
Service temperature, dry heat	–20 to +60 °C	Typical
Thermal expansion coefficient	25 – 35 × 10 ^{–6} /K	Typical
VOC content	Solvent free	Supplier data

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. Behaviour depends on concentration, temperature and contact time. For continuous immersion or aggressive cleaning regimes, refer the specific media to POLYZEN before specifying.

7. CONSUMPTION

Basis	Value	Coverage / 19.9 kg kit
Theoretical, level substrate	1.72 kg/m ² per mm	11.6 m ² at 1 mm
Practical, site conditions	2.00 kg/m ² per mm	9.95 m ² at 1 mm

The practical figure allows for surface profile and normal wastage and is the value to be used for estimating.

8. 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 ft ² / 24 h	ASTM F1869
Substrate moisture — site check	No visible moisture under plastic sheet	ASTM D4263
Floor preparation practice	Slab flat, sound and free of contamination	ASTM F710
Where moisture exceeds the limits	Resin moisture-mitigation membrane before priming	ASTM F3010

Preparation sequence

Mechanical preparation	Diamond grinding or captive shot blasting to remove laitance and weak surface material and to open the surface texture, followed by vacuum cleaning. Acid etching is not accepted.
Repairs	Cracks, joints, spalls and deep pitting repaired with a compatible epoxy repair mortar before priming. Movement joints are carried through the finished floor.
Green and damp concrete	The curing agent in ZENPRIME 100 is formulated for adhesion on damp, unprepared and green concrete, which allows work on younger slabs than a conventional amine-cured primer permits. Confirm the specific case with POLYZEN.

9. APPLICATION

Substrate	Applied over ZENPRIME 100, or over ZENLEVEL 200 where thickness build-up is required. The surface must be sound, clean, dry and free of contamination.
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. Pre-condition packs to a stable temperature before mixing.
Batch size	Mix full kits only, exactly as supplied. Do not part-mix and do not add anything on site. Mix only what can be placed within the pot life — epoxy held in bulk generates heat and sets faster.
Mixing	Disperse Part D fully into Part A first and mix until even in colour. Add Part B and mix for one minute. With the mixer running, add the full Part C bag gradually and mix a further 2 – 3 minutes. Keep the mixing time identical for every batch — uneven mixing times show as shade variation across the finished floor.
Placing	Pour onto the prepared surface and spread to thickness with a pin screed or notched trowel. Immediately pass a spike roller to release entrapped air and remove trowel marks. Work continuously and maintain a wet edge; a cold joint is visible in the finished surface. Applicators must wear spiked shoes.
Protection	Protect from traffic, water and spillage for at least 48 hours. Full mechanical and chemical resistance is reached after 7 days at 25°C.

10. PACKAGING, STORAGE & SAFETY

Packaging	Pre-measured multi-part kit. Each pack carries the product name, part designation, net weight and batch number.
Storage	Original sealed containers, off the ground, dry covered area at 2 – 40°C, away from direct sunlight, heat and moisture. Filler must be kept dry at all times.
Safety	Uncured resins and hardeners can cause skin and eye irritation and sensitisation. Wear chemical-resistant gloves, goggles and protective clothing; ensure ventilation. Do not allow uncured material to enter drains.

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Doc Ref: POLYZEN/TDS/ZT-SL100 | Edition 08/2026 | This edition supersedes all previous versions.

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.