



# ZENDECK Park ZK-100

**RANGE**

ZENDECK (Car-park)

**MATERIAL FAMILY / GROUP**

Car-park deck / epoxy broadcast

**CHEMISTRY**

multi-layer epoxy parking-deck broadcast system

## 1. PRODUCT DESCRIPTION

**ZENDECK Park ZK-100** is a multi-layer epoxy parking-deck coating system with a broadcast aggregate wear course, engineered for the abrasion, point-loading and tyre traffic of car-park decks and ramps.

The system provides a durable, cleanable, slip-resistant surface with line-marking compatibility and an optional crack-accommodating membrane for movement-prone decks. Installed by POLYZEN.

## 2. SYSTEM (LAYER BUILD)

The ZENDECK Park system is applied by POLYZEN as one integrated installation:

LAYER	FUNCTION	DESCRIPTION
<b>1 — Primer Coat</b>	Adhesion	Epoxy primer sealing the prepared deck; crack-accommodating membrane option where movement is expected.
<b>2 — Body + Aggregate Broadcast</b>	Wear course	Epoxy body coat with broadcast aggregate for abrasion and slip resistance.
<b>3 — Seal / Line Marking</b>	Finish & wayfinding	Pigmented seal coat and durable line-marking / bay demarcation.

A crack-accommodating (elastomeric) membrane layer is specified for movement-prone or exposed decks; exposed top-decks use a UV-stable topcoat.

## 3. TYPICAL APPLICATIONS & SECTORS

- Multi-level & basement car parks
- Access ramps & driveways
- Service & loading decks
- Podium & terrace parking
- Commercial & retail parking
- Institutional car parks

## 4. KIT COMPOSITION

COMPONENT	DESCRIPTION
<b>Part A — Resin</b>	Bisphenol-A epoxy base
<b>Part B — Hardener</b>	Cycloaliphatic amine curing agent
<b>Part C — Aggregate</b>	Graded anti-skid broadcast aggregate

Supplied as a pre-measured multi-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	—	Textured anti-skid, pigmented, line-marked
Solids content	—	High-solids / solvent-free class (indicative)
Applied thickness	—	multi-layer broadcast build (indicative)
Coverage / consumption	—	system-based per specification (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 $\geq 3$ °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	~55-75 MPa (indicative)
Pull-off adhesion to concrete	ASTM D4541	>1.5 N/mm <sup>2</sup> , 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 motor oils, fuels, brake fluid & de-icing salts under intermittent exposure (indicative)
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 ZENDECK Park 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.
- **Deck movement:** crack-accommodating membrane system where specified (project-specific detailing; relevant IS/BIS where applicable).

## 9. PACKAGING, STORAGE & SAFETY

- **Packaging:** pre-measured multi-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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*Disclaimer: this interim Technical Data Sheet is given in good faith based on POLYZEN's current knowledge of this class of product. All values are typical / indicative only and do not constitute a guaranteed specification, warranty or certification. Final performance depends on substrate condition, system design, workmanship and service conditions, and is confirmed through POLYZEN batch testing and project commissioning. POLYZEN reserves the right to revise this document; the latest version supersedes all previous.*