



ZENDÉCOR QUARTZ ZD-Q

RANGE

ZENDÉCOR (Decorative epoxy flooring)

SYSTEM TYPE

Coloured-quartz broadcast epoxy system

NOMINAL BUILD

2 mm · 3 mm variant

1. SYSTEM DESCRIPTION

ZENDÉCOR QUARTZ ZD-Q is a coloured-quartz broadcast floor: pigment-coated quartz granules are broadcast to refusal into a wet clear epoxy base, de-sanded after cure and locked under a clear seal. The result is a dense, uniformly textured, anti-slip surface whose colour is in the granule itself.

Because the colour is fired onto the quartz and the quartz takes the wear, the shade does not wear off the traffic lanes — the hardest-wearing decorative finish in the ZENDÉCOR range.

It is built for decorative spaces that get wet and stay busy: the texture grips underfoot, and the seamless body neither absorbs nor stains.

2. RECOMMENDED USES

- Commercial kitchens and serveries
- Restrooms, washrooms and change areas
- Wet zones and splash areas
- Cafeterias and food courts
- Clinics and hygiene-critical decorative areas
- Poolside and spa circulation — covered

3. FEATURES & BENEFITS

- Colour in the granule — does not wear off
- Textured, anti-slip surface, wet or dry
- Densest and hardest-wearing ZENDÉCOR finish
- Seamless and non-porous — hygienic, washable
- Uniform, predictable decorative appearance
- Excess granules swept and reused

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	Base coat	ZENTOP CL 100, clear	0.60 kg/m ²
6	Broadcast	Coloured quartz, to refusal	4.0 kg/m ² retained
7	De-sand	Sweep + vacuum after cure	—
8	Seal coat	ZENTOP CL 100, clear	0.80 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	7.58 kg/m ² (1 mm screed)	9.58 kg/m ² (2 mm screed)
Finish	Textured, satin	Quartz granule
Appearance	Granular, uniform colour	Single shades and blends
Slip resistance	High — wet and dry	Broadcast to refusal
Broadcast	Coloured quartz, colour-coated granule	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.
Base coat	ZENTOP CL 100 clear, by squeegee and back-roller at 0.60 kg/m². The coloured granule supplies the colour; the base stays clear.
Broadcast	Throw the coloured quartz upward so it rains onto the wet base, to refusal — no wet resin visible anywhere. Apply 5 – 6 kg/m²; recover the excess. A missed patch reads as a glossy, slippery island in the finished floor.
De-sand	After cure, sweep and vacuum all loose granules.
Seal coat	ZENTOP CL 100 clear at 0.80 kg/m². A second seal is specified where a smoother, easier-clean face is wanted over the texture — kitchens usually take it; wet ramps do not.
Falls and drains	In wet areas the floor is only as good as its drainage — confirm falls to drain before the system goes down; the build follows the slab, it does not correct it.

10. MAINTENANCE

Routine cleaning	Sweep or vacuum grit daily. Wash with a scrubbing machine and medium brush, or hose and squeegee — a mop alone does not clean a textured profile.
Never use	Acid-based cleaners, steel wool or aggressive solvent washing.
Spillage	Oil and fuel spillage cleaned promptly — the texture holds liquids longer than a smooth floor.
Protection in service	Do not drag steel or sharp-edged loads across the surface.
Periodic	Inspect ramps, turning zones and drainage points annually. Worn texture is restored locally by re-broadcasting a new seal zone after mechanical abrasion.

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
Coloured quartz	25 kg bag	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.

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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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