



# ZENGRIT 25

RANGE

ZENGRIT (Broadcast aggregate)

MATERIAL FAMILY

Graded silica quartz

GRADING

1.2 – 2.5 mm

## 1. PRODUCT DESCRIPTION

**ZENGRIT 25** is washed, kiln-dried and screen-graded natural silica quartz, grading 1.2 – 2.5 mm, supplied for broadcasting into wet resin. It is the aggregate that gives a POLYZEN broadcast floor its anti-skid profile, its wear surface and the mechanical key between coats.

The 1.2 – 2.5 mm grading is the thickness-building grade: the larger granule contributes real build to the section, so a 3 mm deck is reached economically, and the coarse profile stands up to heavy tyre traffic.

Quartz is chosen over softer fillers for a wearing surface because of its hardness: Mohs 7 against 3 for calcium carbonate and 1 for talc. It is also unaffected by dilute acids.

## 2. RECOMMENDED USES

- ZENDECK Park ZK-100 — 3 mm deck build
- Heavy tyre-traffic decks and aisles
- Thickness-building broadcast layers
- Mechanical key under heavy seal coats
- High-wear transitions and aprons
- Industrial broadcast floors

## 3. FEATURES & BENEFITS

- Mohs 7 — the hardest practical flooring filler
- Not attacked by dilute acids
- Washed and kiln dried — no fines, no moisture
- Screen graded to a stated size band
- Excess sweeps up and is reused
- Single grading — predictable profile

## 4. SUPPLY

| Component  | Qty       | Description                                                            |
|------------|-----------|------------------------------------------------------------------------|
| ZENGRIT 25 | 25 kg bag | Grading 1.2 – 2.5 mm                                                   |
| Supply     | Bagged    | Not part of a resin kit; ordered by the bag against the broadcast rate |

## 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.

| Property                         | Value                              | Method / basis       |
|----------------------------------|------------------------------------|----------------------|
| Appearance                       | Free-flowing angular granules      | Visual               |
| Colour                           | Natural off-white to pale amber    | Visual               |
| Composition                      | Natural silica quartz              | —                    |
| Silica content, SiO <sub>2</sub> | ≥ 96 %                             | Typical              |
| Grading                          | 1.2 – 2.5 mm                       | Screen graded        |
| Hardness                         | Mohs 7                             | Typical for quartz   |
| Specific gravity                 | 2.65                               | Typical for quartz   |
| Bulk density                     | 1.4 – 1.6 kg/litre                 | Typical              |
| Moisture content                 | < 0.5 %                            | Typical — kiln dried |
| Acid solubility                  | Negligible in dilute mineral acids | Typical for quartz   |
| Water absorption                 | < 0.5 %                            | Typical              |
| Shelf life                       | Unlimited if kept dry              | —                    |
| Packaging                        | 25 kg bag                          | —                    |

6. CONSUMPTION

| System                    | Applied to refusal          | Retained in the floor |
|---------------------------|-----------------------------|-----------------------|
| ZENDECK Park — 3 mm build | 6.0 – 7.0 kg/m <sup>2</sup> | 4.0 kg/m <sup>2</sup> |

Broadcasting is taken to refusal — aggregate is thrown until the wet resin will accept no more. The difference between applied and retained does not adhere; it is swept and vacuumed off after cure and reused on the next bay. Order against the applied figure, cost against the retained figure.

7. SUBSTRATE & RECEIVING LAYER

| Requirement                       | Value                                        | Standard           |
|-----------------------------------|----------------------------------------------|--------------------|
| 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        |
| Substrate moisture — in-situ RH   | Maximum 75% RH                               | ASTM F2170         |
| Receiving layer                   | Wet POLYZEN resin layer, within its pot life | —                  |

8. APPLICATION

|                       |                                                                                                                                                                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Condition on delivery | Bags must be dry. Aggregate that has taken up moisture will not wet out in the resin and leaves weak, loose grains in the surface.                                                                                                          |
| Broadcasting          | Throw the aggregate upward and let it rain onto the wet resin so it lands evenly. Do not pour or rake it. Work continuously behind the resin crew and stay inside the pot life of the layer being broadcast. Applicators wear spiked shoes. |
| To refusal            | Continue until the resin takes no more aggregate and no wet resin is visible. A missed patch shows as a smooth, slippery island in the finished floor.                                                                                      |
| De-sanding            | After cure, sweep and then vacuum all loose aggregate. The surface must be dust free before the seal coat, or the seal will not bond.                                                                                                       |
| Reuse                 | Swept aggregate that is clean and dry is reused on the next bay. Discard anything contaminated with dust, cured resin lumps or moisture.                                                                                                    |
| Storage               | Bags off the ground, under cover, sealed. Quartz is not damaged by age; it is damaged by damp.                                                                                                                                              |

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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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