

Deckrete QuartzFlow SL

Sel-Levelling Epoxy Coloured Quartz Flooring System

Description

Deckrete QuartzFlow SL is a high-performance, self-levelling epoxy flooring system incorporation coloured silica quartz aggregates to produce a seamless, decorative, and abrasion-resistance surface. Designed for commercial, resistance and aesthetic appeal.

Features & Benefits

- Seamless, hygienic, easy-to-clean surface
- Excellent abrasion and impact resistance
- UV-stable coloured quartz finish
- High chemical resistance
- Non-porous and stain-resistant
- Available in multiple colour blends
- Suitable for medium to heavy-duty traffic
- Low odour, solvent-free epoxy system

Typical Applications

- Commercial kitchens & food processing areas.
- Hospitals, laboratories & clean rooms
- Retail spaces & showrooms
- Warehouses & light-industrial facilities
- Schools, corridors & public buildings
- Decorative architectural floors

System Components

1. Primer

- Deckrete EP Primer / Deckrete MB (Moisture Barrier) (as required)

2. Self-Levelling Body Coat

- Deckrete QuartzFlow SL Resin
- Coloured Silica Quartz Blend (graded)

3. Topcoat / Sealer

- Deckrete WB 101
- Optional: Deckrete UV -resistant topcoat

Technical Data

Physical Properties

Property	Typical Value
Density (mixed)	1.60 – 1.80 g/cm ³
Pot Life	20-30 minutes at 25°C
Compressive Strength	Shore D 75 – 80
Flexural Strength	25 – 35 MPa
Tensile Strength	12 – 18 MPa
Adhesion to Concrete	> 1.5 MPa (substrate failure)
Abrasion Resistance	Excellent

Chemical Resistance

Resistant to :

- Dilute acids & alkalis
- Detergents & cleaning chemicals
- Oils, grease & fuels
- Food acids (milk, juice, vinegar)

Recommended Thickness

2.0 – 4.0 mm depending on service conditions and quartz loading.

Surface Preparation

- Concrete must be sound, dry and free from contaminants
- Minimum compressive strength: **25 MPa**
- Moisture content: < **4%**
- Recommended preparation : **Grinding or shot-blasting**
- Apply primer immediately after preparation

Application Method

1. Apply primer and allow to tack-dry
2. Mix Deckrete QuartzFlow SL resin and hardener thoroughly
3. Add coloured quartz aggregates and mix until homogeneous
4. Pour onto floor and spread using a notched trowel or gauge rake

5. De-air using spike roller
6. Allow curing before applying topcoat
7. Apply final sealer/topcoat for desired finish

Curing Time

Condition	Time
Light Foot Traffic	24 hours
Full Mechanical Use	3 – 5 days
Full Chemical Resistance	7 days

Application Conditions

- Substrate temperature: 10 – 35°C
- Relative humidity: < 75%
- Avoid condensation during curing

Coverage

- 1.5 – 2.5 kg/m² per mm thickness (depending on quartz loading)

Packaging

- Resin : 2.86 kg
- Hardener : 1.4 kg
- Coloured Quartz: 10.74 kg bags (various grades)
- Total : 15 kg

Limitation

- Not suitable for rising damp unless moisture barrier is applied
- Avoid application under direct sunlight or strong wind
- Not recommended for areas exposed to strong UV without PU topcoat

Safety & Handling

- Wear gloves, goggles and protective clothing
- Avoid skin and eye contact
- Ensure adequate ventilation
- Refer to SDS for full safety information

Shelf Life & Storage

- 12 months in original unopened containers
- Store in cool, dry conditions (10° – 30°C)
- Protect from direct sunlight and moisture

Technical Support

Topkrete provide a technical advisory service supported by a team of specialist in the field.

Additional Information

Topkrete manufacturers and offers a wide range of complementary products which includes waterstop, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spelled concrete are available.

Warranty

Topkrete Sdn Bhd warrants that the products manufactured by it shall be free from material defects and will conform to formulation standards and contain all components in their proper proportion. Should any of the products be proven defective, the liability to TOPKRETE SDN BHD shall be limited to replacement of the material proven to be defective, and TOPKRETE SDN BHD shall in no case be liable otherwise or for incidental or consequential damages. **TOPKRETE SDN BHD MAKES NO WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED.** User shall determine the suitability of the product for its intended use and assume all risks and liability in connection therewith.

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