

TECHNICAL DATA SHEET

LevelCore Polished Concrete Topping (TERRAZZO finish)



Indicative finish reference image

1 - PRODUCT DESCRIPTION

This is an indoor high-performance decorative polished concrete topping/levelling overlay with a pre-blended aggregate formulation. No additional aggregate, emulsion or additives are needed; only mix with clean water for application. It delivers a classic TERRAZZO finish and features fast curing, ideal for old floor refurbishment and new decorative flooring projects.

2 - APPLICATION SCOPE

1. For indoor dry areas only
2. Suitable for pedestrian traffic and light-duty rubber-wheel forklift traffic
3. Not suitable for steel-wheel/hard plastic-wheel equipment, heavy-duty industrial areas, or highly corrosive chemical environments

3 - SUITABLE SUBSTRATES

1. Structurally sound concrete substrates
2. Ceramic/porcelain tile substrates (polishing effect is limited)
3. Epoxy coatings, epoxy terrazzo, non-porous cementitious terrazzo
4. High-moisture substrates must be pre-treated with a LevelCore moisture control system

4 - ENVIRONMENTAL REQUIREMENTS

1. Application and curing temperature: ≥ 10 C
2. Underfloor heating: Switch off heating 48 hours before application, and keep off for another 48 hours after completion
3. Maintain good ventilation on site; avoid direct strong wind

5 - SUBSTRATE PREPARATION

1. Use mechanical cleaning (e.g., shot blasting); acid etching, adhesive removers and solvents are strictly prohibited
2. Substrate must be dry, alkali-free, oil-free, free of release agents, old coatings and all bond-breaking contaminants
3. Concrete substrate must achieve a surface profile of CSP 3-5
4. Thoroughly vacuum to remove dust and debris after preparation
5. A LevelCore dedicated primer must be applied before installation

6 - EXPANSION JOINTS & CRACK TREATMENT

1. Do not cover expansion joints, control joints or active cracks
2. Static cracks >0.8 mm: Repair with special repair compound and broadcast sand to refusal
3. The manufacturer shall not be liable for reflective cracks that appear later

7 - MIXING INSTRUCTIONS

1. Mix with clean water only; pre-blended aggregate is included, no extra materials are required
2. Recommended water dosage: 3.2 L per 20 kg bag (16% of powder weight); overwatering is strictly prohibited as it drastically reduces strength
3. Mixing time: Mix thoroughly for 2-3 minutes until uniform and lump-free
4. Flow cone flowability: 325 mm

8 - APPLICATION THICKNESS

- Total thickness range: 6 mm - 50 mm
- Minimum thickness for sealing: 6 mm
- Minimum thickness for polishing: 9.5 mm
- Maximum application thickness: 50 mm

9 - CORE PERFORMANCE

Test Item	Performance Standard
Water Dosage	3.2 L per 20 kg bag (16%)
Flow Cone Flowability	325 mm
1-day Flexural Strength	≥ 6 MPa
1-day Compressive Strength	≥ 35 MPa
28-day Flexural Strength	≥ 8 MPa
28-day Compressive Strength	≥ 48 MPa

10 - CURING TIMES

- Pedestrian traffic: 2-3 hours
- Ready for sealing: ≥ 24 hours
- Ready for polishing: ≥ 24 hours

11 - IMPORTANT WARNINGS

1. For use by professional installers only
2. Do not add extra cement, additives or unapproved materials
3. Test panels must be completed before full-scale installation to verify finish and workability
4. As a thin decorative overlay, this product cannot restrain structural slab movement; reflective cracking is normal
5. Designed for indoor dry areas only; not intended for use as a moisture barrier
6. This is a decorative overlay, not a structural material; substrate cracks may reflect to the surface
7. Must be sealed/topcoated before use; bare application is prohibited

12 - PACKAGING & STORAGE

1. Packaging: 20 kg/bag
2. Storage: Keep in a cool, dry area; protect from sunlight and rain
3. Shelf life: 9 months when unopened and properly stored

13 - NOTES

All technical data is obtained under standard laboratory conditions. Actual on-site performance may vary due to substrate condition, environment and application practices. Always conduct on-site tests before installation.

For further information consult our Technical Department.