

TECHNICAL DATA SHEET

LevelCore Polished Concrete Topping (DARK ASH finish)



Indicative finish reference image

1 - PRODUCT DESCRIPTION

This is an indoor high-performance decorative polished concrete topping/levelling overlay with a pre-blended powder formulation, containing no aggregate particles. Customer-specified aggregate can be added as required, and the DARK ASH decorative effect can be achieved directly without adding aggregate. It 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. This product is a pre-blended powder, containing no aggregate particles; customer-specified aggregate can be added as needed. Mix with clean water only when no aggregate is added.
2. Recommended water dosage: 4.2 L per 20 kg bag (21% of powder weight, tested on DARK ASH version); 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: 350 mm (tested on DARK ASH version, without aggregate addition)

8 - APPLICATION THICKNESS

- Thickness range:
- Without aggregate addition: 6 mm - 30 mm (recommended maximum thickness: 30 mm)
- With customer-specified aggregate addition: Maximum up to 50 mm
- Minimum thickness for sealing: 6 mm
- Minimum thickness for polishing: 9.5 mm

9 - CORE PERFORMANCE

Test Item	Performance Standard
Water Dosage	4.2 L per 20 kg bag (21%)
Flow Cone Flowability	350 mm
1-day Flexural Strength	≥ 6 MPa
1-day Compressive Strength	≥ 30 MPa
28-day Flexural Strength	≥ 8 MPa
28-day Compressive Strength	≥ 45 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.