

# weber.floor LVL 100 multi

## Self-levelling, fiber added, thick screed

Technical Data Sheet  
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### ■ Description

Cement based, self-levelling, fiber added screed with 10-100 mm of application range.

### ■ Reference standards

TS EN 13813  
EMICODE ECI Plus  
Public Works Pos. No: 04.379/D04

### ■ Advantages

- Easy application with self levelling feature
- Up to 100 mm of levelling in single use
- Provides practical solutions for level changes and floor renovation applications
- Ideal solution for floor heating systems
- Floating systems can be built using insulation boards
- Fiber added
- Minimized shrinkage
- No blistering
- Pump applicable

### ■ Application areas

Used as levelling screed prior to tiling, carpet, parquet applications on medium and heavy traffic interior floors of all buildings.

The substrate should be levelled using weber.floor LVL 05 smart or weber.floor LVL 10 premium before thin finalcoat applications like PVC, linoleum, etc.



### ■ Application substrates

- Interior floors;
- Cement based screed,
  - Concrete floors
  - Prefabricated concrete,

Please consult us for all other application substrates.

### ■ Preparation of substrates

**Applications adhering the substrate (concrete, cement based screed, etc.):**

- The substrate should be clean, dry, smooth and sound.
- Paint, gypsum, concrete and adhesive residues should be removed by scraping.
- Weak parts should be scratched and removed from the substrate.
- The substrate should be cleaned from dust by aspiration or vacuum cleaning.
- Local defects should be repaired using **weber.rep** repair mortars or **weber.tec 793 3K** if any exist.

- Cracks should be supported with weber zemin filesi, applied in 10 cm width and 45 degrees on the corners.
- The substrate should be primed using **weber.prim FP-A** at least 30 minutes before **weber.floor LVL 100 multi** application.

### Applications on insulation boards:

- Insulation boards (XPS, EPS, mineralwool, etc.) should be placed horizontally in a single row.
- Boards should be placed on the substrate carefully, not causing stress and deformation.
- Boards should be placed close to each other with no gaps and holes in between.
- Boards should reach the same thickness after placing on the substrate.
- Waterproofing materials should be applied on the bottom sections of the boards.
- Upper sections of the boards should be covered with PE (polyethylene) sheet, edges of the PE sheet should be bonded each other carefully. Beware **weber.floor LVL 100 multi** flowing to insulation boards or lower substrate.
- Constructional components (walls, columns, etc.) which are vertically placed on the substrate should be separated from **weber.floor LVL 100 multi** by placing 8 mm soft strips.
- **weber zemin filesi** should be layed on the insulation board and PE sheet. Edges of the **weber zemin filesi** should be overlapped by 10 cm.

### Application on floor heating system:

- Insulation layer under the floor heating system should be placed correctly and adjacently.
- Compressive rate of the insulation layer should be very low and pre-calculated.
- Load and traffic to be exposed to the substrate should be pre-calculated.
- Conform to expansion joints on floor concrete for the insulation layer of the floor heating system and for **weber.floor LVL 100 multi** application as well.
- Constructional components (walls, columns, etc.) which are vertically placed on the substrate should be separated from **weber.floor LVL 100 multi** by placing 8 mm soft strips.
- **weber zemin filesi** should be layed on the protective foil. Edges of the **weber zemin filesi** should be overlapped by 10 cm.

### ■ Application conditions

- Ambient temperature between +5°C and +30°C.
- Should not be used on frozen or melting substrates, or substrates with the risk of frost within 24 hours.
- Should not be applied under direct sun, strong wind or on hot (heated) substrates.
- Roof should be closed and doors/windows should be kept shut to prevent air flows in the application area. Only gaps providing a healthy air flow should remain open.
- Only suitable for interior use.

### ■ Application

- Add 4 liters of clean water to a 25 kg bag of **weber.floor LVL 100 multi**. **weber.floor LVL 100 multi** should be mixed to a homogenous consistency using a low-speed mixer.
- Width should not exceed 3 meters for manual applications using hand mixer. This area can be determined using anos.
- Spreaded material can be smoothed using gauge if necessary.
- Continuity of the material is vital. Freshly poured material should join the previous one before setting.
- Remove the ano when the first area is fully set then switch to the next area.

### ■ Application tools

Smoothing gauge, steel trowel, thickness marker, hand mixer

### ■ Consumption

1.90-2.00 kg/m<sup>2</sup> (for 1 mm application thickness)

### ■ Points of attention

- Conform to dilatation joints if any exist.
- Use profiles suitable for the topcoat to be applied.
- Operating temperature of floor heating systems should not exceed 55°C.
- Levelling requirements should be determined before the application.
- Prevent fast setting of the material in extremely high temperatures.
- Do not add any foreign substances.
- Not applicable on permanently wet or humid substrates.
- Not applicable on non-durable and loose substrates.
- Not applicable on exteriors and industrial areas.
- Not applicable on old surfaces and wooden floors.
- The substrate should be levelled using **weber.floor LVL 05 smart** or **weber.floor LVL 10 premium** before thin finalcoat applications like PVC, linoleum, etc. The surface of **weber.floor LVL 100 multi** should be primed with **weber.prim FP-A**.
- Cannot be left as finalcoat.

### ■ Technical specifications

PRODUCT	<b>weber.floor LVL 100 multi</b>
Product structure	Powder
Colour	Grey
Density (mortar)	2.20 gr/mm <sup>3</sup>
Mixing ratio	25 : 4 ( <b>weber.floor LVL 100 multi</b> : water)
Self-levelling time of mortar	30-40 minutes
Time required for pedestrian traffic	8 hours
Application thickness	10-100
Mortar flow rate	190-200 mm (weber standard flow ring 68x35 mm)
PERFORMANCE	
Compressive strength	≥20 N/mm <sup>2</sup>
Flexural strength	≥4 N/mm <sup>2</sup>
Bond strength	≥1 N/mm <sup>2</sup>
Shrinkage	<0.5 mm/m

Time required for top coat application			
Application thickness	20 mm	40 mm	100 mm
Tiles, marble	>2 gün	>7 gün	>14 gün
PVC, linoleum	>3 gün	>14 gün	>28 gün
Carpet	>3 gün	>14 gün	>28 gün
Parquet	>5 gün	>28 gün	>28 gün

Joint Planning			
	Applications adhering substrate	Applications on thermal insulation panels	Applications on floor heating systems
Maximum area	80 m <sup>2</sup>	50 m <sup>2</sup>	36 m <sup>2</sup>
Maximum edge length	10 m	8 m	6 m
Maximum width length ratio	1 : 1.5	1 : 1.5	1 : 1.5

Minimum <b>weber.floor LVL 100 multi</b> thickness		
Load	Board Compressibility	Minimum Thickness
Substrate load 2,0 kN/m <sup>2</sup> point load 1 kN	<3 mm	40 mm
Substrate load 3,0 kN/m <sup>2</sup> point load 2 kN	<3 mm	50 mm
Substrate load 4,0 kN/m <sup>2</sup> point load 3 kN	<3 mm	60 mm
Substrate load 5,0 kN/m <sup>2</sup> point load 4 kN	<3 mm	65 mm
Substrate load 5,0 kN/m <sup>2</sup> and above	Project should be investigated	

### ■ Safety precautions

- Use appropriate safety equipment (mask, gloves, glasses).
- Protect your eyes/face.
- Avoid direct contact with eyes and skin.
- In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention.
- Please read Safety Data Sheet (SDS) for further safety information.

### LEGAL DISCLAIMER

Saint-Gobain Weber Yapı Kimyasalları San. ve Tic. A.Ş. is not responsible for any errors arising from the use of product beyond its intended purpose or not complying the application procedures mentioned above.

### ■ Storage

<b>Packaging</b>	25 kg kraft bag
<b>Pallet Size</b>	107x107 (64 bags per pallet, 1.600 kg)
<b>Colour</b>	Grey
<b>Shelf life</b>	<ul style="list-style-type: none"><li>• 1 year from date of manufacture when stored unopened and undamaged in a dry, moisture-free environment.</li><li>• Packages should be kept tightly closed when not in use.</li><li>• Lumped or petrified products should not be used.</li></ul>

The stated times apply for 20°C substrate and ambient temperature; increase at lower temperatures and decrease at higher temperatures.

**Saint-Gobain Weber Yapı Kim. San. ve Tic. A.Ş.** is not responsible for the application errors arising from use of product beyond its intended purpose of failure to comply with the forgoing application conditions and advice on the product.



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