

## TERMOKIR FL 820 (Ritsufit Top)

### Advanced cement mortar for tile flooring



#### Classification

MC2

#### Color

Gray

#### Packaging and Weight

Bag, 25 kg

#### Number of Bags per Pallet

84 units



### Standards and Certifications

Complies with Israeli Standard 6069 for flooring cement mortar.

Work must be done according to IS 1555 Part 3 and Israeli Standard 5566 Part 2, for flooring.

Green Label certified.

Product has undergone Life Cycle Analysis (LCA).

Holds a verified Environmental Product Declaration (EPD).

### Property and main uses

- For installing porcelain and ceramic tiles, natural stone and marble, terrazzo tiles.
- For use in shopping malls, industrial facilities, transport terminals, and hospitals.
- Suitable for the following beddings: concrete, "meda", "stabilized" sand, gravel (sumsum).
- For internal and external application
- Mixture ready to use, just add water.

### Product Composition

Cement, graded aggregates, resins, and special additives.

### Typical Consumption

Approximately 16 kg/m<sup>2</sup> at 10 mm thickness. Consumption may vary according to the bedding and application method.

**Background and Substrate**

Flooring background shall be one or a combination of the following:

- Concrete, screed, and lightweight concrete (Bet-Kal)
- Sand and stabilized sand.
- Mineral aggregate ("sumsum")
- Recycled aggregate
- Lightweight aggregate ("pumice")

**Remarks**

- The concrete/screed substrate must be dry, clean, and free from oil residues, dust, salts, or any other substances that could cause application failure.
- The thickness of the stabilized sand layer must be 3–5 cm, with a moisture content of up to 6%.
- The thickness of the mineral aggregate ("sumsum") or recycled aggregate layer must be at least 6 cm, with a maximum moisture content of 3%.
- The thickness of the lightweight aggregate ("pumice") layer must be at least 6 cm, with a maximum moisture content of 16%.

**Technical Data**

Working time (Pot life) Time	About an hour
Compressive Strength after 28 days in laboratory conditions	More than 18 MPa
Bending Strength after 28 days in laboratory conditions	More than 5.0 MPa

**Tensile adhesion strength:**

After 28 days in laboratory conditions	More than 1.0 MPa
After 14 days in lab conditions + 14 days heat ageing	More than 1.0 MPa
After 7 days in laboratory conditions + 21 days water immersion	More than 1.0 MPa

\*Data refers to laboratory conditions at  $23^{\circ}\text{C} \pm 2^{\circ}\text{C}$  and  $50\% \pm 5\%$  relative humidity

**Application****Mixture preparation**

- Pour about 4.0 liters of clean water into a suitable container free of any material residues, according to the type and speed of the electric mixer.
- Gradually add the entire contents of the bag and mix until a smooth, fine, lump-free paste is obtained.
- After waiting for about 5 minutes, mix again briefly.
- At this stage, the material is ready for use.

Despite the values above, water quantity may vary. In any case, ensure the pot life level is appropriate for the product. It is recommended to consult with the technical department.

### Method of application

- Spread the mortar evenly over the substrate. Apply a thin, non-raked layer of mortar to the back of the tile (using a smooth trowel) while reinforcing it. Then install the tile using the “wet-on-wet” method.
- Tap the back of the tile with a rubber hammer until the desired level is reached.
- Application thickness over concrete, sand, and stabilized sand: 15–40 mm.
- Application thickness over mineral aggregate (“sumsum”) or recycled aggregate: 20–40 mm.
- Application thickness over lightweight aggregate (“pumice”): 25–40 mm.

### Checking adhesive coverage

- During flooring work, after pressing the tiles in place, one tile should be removed for every 10 m<sup>2</sup> to inspect. The degree of adhesion and the coverage of the material on the back of the tile must be checked. The mortar must cover at least 85% of the tile’s back surface. The first check should be performed after tiling 1 m<sup>2</sup>.
- The above inspections provide a general assessment. All testing must be performed in accordance with the applicable standards and requirements. An accredited laboratory must be engaged for official testing.

### General instructions

- Store the product in a shaded, well-ventilated area.
- The material is suitable for use up to 9 months from the production date, provided it is stored in its original packaging under recommended conditions.
- Storage alongside gypsum-containing materials/products is strictly prohibited.
- Permitted application temperature range: 5°C – 35°C.
- Working time may vary depending on environmental conditions at the time of application.
- Do not apply under extreme weather conditions (heatwaves, rain, strong winds).
- This product must not be used in combination with gypsum-based products without consulting the company’s representative.
- Apply the material only after 14 days have passed since the concrete casting was completed.
- Dried mixture must not be reused.
- When using the special tiles, the back of the tile should be coated with adhesives from the AD family, according to the manufacturer’s instructions.
- Installed tiles must not be washed with water or exposed to rain for at least 24 hours after application.
- Walking on the tiled surface is permitted only after 72 hours from completion of application.



- Placement of furniture and/or any equipment on the tiled area is allowed only after 14 days from application.
- Since the material is alkaline, proper protection for skin and eyes is required. In case of contact, rinse immediately with running water.

**Warning**

It is strictly prohibited to touch and/or add other materials, including gypsum and/or gypsum-containing products, to this product.

**Warranty**

The company's responsibility is limited to the standard and quality of materials only and does not supersede the worker's responsibility. The worker must verify the product and system's suitability for their needs, its compatibility with other materials it comes into contact with, and proper execution. We reserve the right to update or change the data and recommendations without advance notice. The worker is responsible for checking the latest updates.

**Translation Disclaimer**

This product information has been translated from Hebrew to English for convenience only. In case of any discrepancy between the English translation and the original Hebrew language, the Hebrew version shall prevail. Therefore, we recommend relying solely on the information written in Hebrew! Furthermore, before using any product, you should consult the technical department for prior advice and support during use. The company accepts no responsibility for any damage or loss resulting from failure to comply with these instructions.

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a diamond mark company

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