

## TERMOKIR TH 400

### Thermal insulating plaster



Color

Gray

Packaging and Weight

Bag, 23 kg/75 L

Number of Bags per Pallet

24



### Standards and Certifications

Awarded standard mark of Israeli Standard 1414 for thermal insulation plaster.

Complies with the requirements of Israeli Standard 1045 for thermal insulation, and Israeli Standard 5282 for green building.

Complies with the requirements of Israeli Standard 5075 for safe rooms.

Green Label certified.

Product has undergone Life Cycle Analysis (LCA).

It holds a verified Environmental Product Declaration (EPD).

### Key Features and Uses

- For insulating the entire building envelope, including thermal bridges
- Suitable for indoor and outdoor use
- For use in all types of structures, including high-rises.
- Suitable for safe rooms.
- Energy saving
- Prevents condensation inside the building
- Breathable, allows water vapor transmission
- Mixture ready to use, just add water.

### Product Composition

Cement, expanded polystyrene beads, resins, and special additives.

### Typical Performance

Width	Performance rate
3 cm	2.25 m <sup>2</sup> per bag.
4 cm	1.70 m <sup>2</sup> per bag.
5 cm	1.35 m <sup>2</sup> per bag.

The yield may vary depending on substrate conditions and application method.



a diamond mark company

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**BUILDING RIGHT**

### Background and Substrate

- **Background:** Concrete, concrete block, aerated concrete block, pumice block, and silicate block.
- **Substrate:** For outdoor use - Termokir PL 100, for indoor use - Termokir PL 130.
- One day before application: Wash the surface with water to remove dust, salts, oils, or any factors that may cause an execution failure.

### Technical Data

Working time (Pot life) Time	About an hour
Density after drying	Less than 400 kg/m <sup>3</sup>
Thermal conductivity in a dry state Standard Institute Certificate 7231901771	$\lambda_1 = 0.100 \text{ w/(m}^{\circ}\text{k)}$ .
Design thermal conductivity	$\lambda = 0.115 \text{ w/(m}^{\circ}\text{k)}$ .
Design thermal resistance at 1 cm thickness	$r = 0.087 \text{ m}^2 \cdot \text{k/w}$
Compressive Strength after 28 days in laboratory conditions	More than 1.2 MPa
Tensile Adhesion Strength after 28 days in laboratory conditions	More than 0.2 MPa
Classified according to fire reaction (Israeli Standard 755)	B-s1, d0

\*Data refers to laboratory conditions at 23°C ± 2°C and 50% ± 5% relative humidity

### Application Method

#### Preparing the Material

- Pour 12.0-13.0 liters of clean water into a suitable and clean container, free of 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

- Apply a thin and compacted layer onto the substrate using a smooth trowel, and immediately follow with an additional layer until the required thickness is achieved.
- Application thickness:  
**30-40 mm in a single layer.**  
 40-70 mm in two layers, incorporating a suitable fiberglass mesh in the first layer  
 For thicknesses above 70 mm, contact the training department representative



- The thermal plaster layer must be applied 24 to 72 hours after the completion of the base coat application.

### **Curing**

It is recommended to apply the next layer in the system the day after, and up to one week after, completion of the base coat application. If the next layer is not applied within 24 hours, curing must begin the day after the base coat application—three times a day, for three consecutive days. In areas with rapid drying, begin curing on the same day as application.

### **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.
- This product must not be applied in systems containing gypsum-based materials without prior consultation with company representatives.
- Working time (Pot life) time may vary with the ambient conditions prevailing during application.
- Do not apply under extreme climatic conditions (dry heatwave, rain, winds)
- Dried mixture must not be reused.
- Ensure compliance with relevant standards.
- Before performing the work, call a company representatives for getting on-site guidelines.
- 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 operator's responsibility. The operator must check that the product and system suit his needs, is compatible with other products that the product comes into contact with and is suitable for adequate performance of the work. We reserve the right to update or change the data and recommendations without advance notice. The operator is responsibility for reading 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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