

TERMOKIR AD 503

Cement-based adhesive for tile bonding



Classification

C2T

Color

Gray

Package Type and Weight

Bag, 25 kg

Number of Bags per Pallet

84 units



Standards and Certifications

Awarded standard mark of Israeli Standard 4004 for tile adhesives.

Work must be done according to the requirements of IS 1555 for ceramic tiles wall cladding and flooring.

Green Label certified.

Product has undergone Life Cycle Analysis (LCA).

Holds a verified Environmental Product Declaration (EPD).

Property and main uses

- Suitable for ceramic and porcelain tiles with water absorption rate of up to 10%.
- Adhesive layer thickness: 5-10 mm (up to 20 mm in two layers).
- For internal and external applications.
- Mixture ready to use, just add water.

Product Composition

Cement, graded aggregates, resins, and special additives.

Typical Consumption

Approximately 1.40 kg/m² at 1 mm thickness. Consumption may vary according to the bedding and application method.



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Background and Substrate

- Concrete, concrete blocks, aerated concrete blocks, plaster.
- One day before application, rinse the surface with water to remove dust, oil, salts, and any factors that may cause adhesion failure.

Technical Data

Working time (Pot life)	About an hour and a half
Open Time:	20 minutes
Reduced Slip	Less than 0.5 mm.

Tensile adhesion strength:

After 28 days in laboratory conditions	More than 1.5 MPa
After 14 Days (Lab Conditions) + 14 Days heat ageing in oven 70C	More than 1.5 MPa
After 7 Days (Lab Conditions) + 21 Days water immersion	More than 1.0 MPa

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

Application

Mixture preparation

- Pour 6.5-7.0 liters of clean water into a suitable container that is 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 adhesive is ready for use.

The 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.

Adhering

- Apply a thin, compacted adhesive layer to the substrate using a smooth trowel.
- Immediately apply a second adhesive layer onto the fresh adhesive using a notched trowel, spreading in a crosswise direction.
- Spread the adhesive at an approximate angle of 60° to the substrate. The tooth depth should match the tile dimensions.
- Apply a thin, compacted adhesive layer to the back of the tile using a smooth trowel.
- Press the tile into place while shaking and compressing it into the fresh adhesive ("wet-on-wet"), securing it using a rubber hammer.
- During installation, ensure the creation of joints according to relevant standards.
- Fill standard joints at least one week after completing the work with **SAKRET JF 930** acrylic grout or **TERMOKIR JF 920** mortar, depending on the joint width.
- Fill expansion joints at least one week after completing the work with **SAKRET SE 963** silicone sealant.



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Checking adhesion coverage

- During flooring work, after pressing the tiles into place, sample one tile per 10 m² by removing it to inspect adhesion and adhesive coverage on the tile's back. The adhesive must cover at least 85% of the tile's surface. The first inspection should be conducted after tiling the initial 1 m².
- The above checking provide a general assessment. All tests must comply with requirements and relevant standards. 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.
- This product must not be used in combination with gypsum-based products without consulting the company's representative.
- Do not apply outdoor bonding during heatwaves or rainfall.
- Dried mixture must not be reused.
- Do not wash adhered tiles with water or expose them to rain for at least 72 hours after application.
- Do not bond stones and/or tiles that do not meet relevant standard requirements.
- 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 warranty is limited to the integrity and quality of materials only and does not replace 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 modify data and recommendations without prior notice. The worker is responsible for checking the latest updates.



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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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