

ENTEGRE

"Building Life"

KAROFIX® POWER FLEX ULTRA

Highly Flexible High-Performance
Cement-Based Adhesive Mortar



TILE ADHESIVES AND
GROUTING MORTARS

Areas of Use

Thanks to the special raw materials in its formulation, it provides superior adhesion performance and a high degree of flexibility in bonding large-format ceramic tiles, granite, porcelain tiles, marble, travertine and similar covering materials on horizontal and vertical surfaces indoors and outdoors.

Can be used in dry and wet areas (bathrooms, swimming pools, water tanks, terraces, etc.), on cement-based plaster and concrete surfaces, on underfloor heating systems, on floors exposed to heavy pedestrian traffic (hotels, hospitals, workplaces, schools, sports complexes, shopping centres, etc.), in areas at risk of thermal shock, in cold storage facilities, on floors exposed to vibration, and in ceramic-on-ceramic applications.

Advantages

- Ideal for large-format ceramic tiles, granite, porcelain tiles, marble, travertine and similar covering materials.
- Provides high performance in ceramic-on-ceramic bonding.
- Provides high adhesion performance thanks to its highly deformable structure (S2).
- Suitable for use in areas subject to intense temperature variations.
- Resistant to water and frost.

- Provides excellent performance on floors exposed to heavy traffic.
- Can be used safely in cold storage facilities.

Application

Surface Preparation

The surface must be completely free of formwork oil, dust, paint and substances that reduce adhesion.

Before application, cracks and holes must be repaired with suitable Entegre Repair Mortars.

If the application surface is dry and hot, it must be dampened with water.

Before application on surfaces that are not resistant to moisture, such as gypsum board and gypsum plaster, PRİMEL 100® is applied; in ceramic-on-ceramic applications, PRİMEL 600® is applied to the surface, and once drying is complete (approximately 24 hours), the bonding process is started.

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Mortar Preparation and Application

First, water is poured into the mixing container, and then KAROFIX® POWER FLEX ULTRA is added (6,25-6,75 L of water/25 kg bag) and mixed with a low-speed hand mixer until the lumps disappear. The mixture is left to stand for 5 minutes and then mixed again to obtain a homogeneous consistency. The prepared mortar is combed onto the surface at the required thickness, and the ceramic tile is bonded. For good adhesion, pressure must be applied to the surface with a rubber mallet. Double-sided bonding must be used for large-format ceramic tile coverings. Grouting may begin at least 24 hours after the application of Karofix Power Flex Ultra.

Consumption

Applicable to single-sided application.

Trowel Size	Consumption (kg/m ²)
3	2-3
4	3-4
6	4-5
8	5-6
10	6-7

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Technical Values

Technical Values	Value
Open Time: Tensile Adhesion Strength, N/mm ² (after at least 30 minutes), (TS EN 12004-2)	≥ 0,5
Pot Life, Hours	< 2
Adhesion Strength; N/mm ² (TS EN 12004-2)	≥ 1
Under Dry Conditions	≥ 1
Under Wet Conditions	≥ 1
Under Hot Conditions	≥ 1
Under Cold Conditions	≥ 1
Transverse Deformation, mm (TS EN 12004-2)	≥ 5
Slip, mm (TS EN 12004-2)	≤ 0,5
Reaction to Fire (TS EN 13501-1)	A2

Packaging and Storage

- Supplied on pallets in 25 kg polyethylene-reinforced kraft bags.
- The shelf life is 1 year from the date of production when stored unopened in its original packaging in a dry, frost-free environment, stacked no more than 8 bags high and without direct contact with the floor; after opening the bag, consumption within 1 week is recommended.
- Keep packages tightly closed when not in use.

Warnings

- No foreign material (lime, cement, gypsum, etc.) must be added to the prepared mortar.
- Mortar whose pot life has expired must not be mixed with water or dry mortar and reused.
- KAROFIX® POWER FLEX ULTRA White is recommended for light-coloured applications.
- Application at temperatures between +5 °C and +35 °C is recommended.

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Liability: The above data were obtained under laboratory conditions. Entegre shall not be held liable for any problems or damages arising from use of the product for purposes other than those specified, failure to comply with the stated storage, preservation and application conditions, or incorrect application. Entegre reserves the right to update and amend the above information without prior notice.



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- For an ideal application, the covering material must be bonded to the mortar applied to the surface within 30 minutes. This period applies at 23 °C. On hot surfaces or under hot ambient conditions, this period will be significantly shorter; this must be taken into account and appropriate measures must be taken.
- For heated underfloor heating systems, the system must be switched off 48 hours before application and it must be ensured that the system has cooled down.
- Do not apply on frozen surfaces.
- Do not apply under direct sunlight.
- Do not use product heated under sunlight directly; allow it to cool in the shade before use.
- Do not apply under direct sunlight.
- Do not use outside the specified application areas and instructions for use.
- Do not inhale directly. In case of contact with eyes, rinse with plenty of water and seek medical advice if necessary.
- For further information, request the product safety data sheet.
- Please consult us regarding all other application conditions and for your technical questions.

Certificate of Conformity



TS EN 12004-1 / April 2017 / C2TES2

C2: Improved Cementitious Adhesive

T: Reduced Slip

E: Extended Open Time

S2: Highly Deformable

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