

DESCRIPTION:

TEKNO KOLL E is an easy to work, high quality cement-based adhesive, for professional laying of absorbant ceramic tiles. Grey or white, this is a premixed cement-based high strength, pure marble dust, selected silica sand, special synthetic polymers and special additives. This product may be recycled as an inert once expired.

CLASSIFICATION IN COMPLIANCE WITH EN 12004:

Cementitious adhesive for fixing Class C1 indoor and outdoor ceramic tiles, with extended open time (E) and high slip resistance.

USE:

TEKNO KOLL E

is a professional, highly workable for the installation also when very thickly applied of absorbant ceramic tiles on flooring and walls. Suitable for indoor and outdoor use, on all main materials normally used in construction, cement-based screeds and bases in plaster, gypsum or screed-ready ANTEMASS L. The use of the product is extremely suitable for low level or out-of-plumb walls since it may be applied up to a 10 mm thickness. For special applications, please contact our Technical Department.

NOT FOR USE ON:

wood, metal, linoleum, PVC, rubber, non-rigidly fixed panels, precast concrete panels or smooth surfaces. On worn ceramic flooring, exclusively use **TEKNO GRIP TE** or **TEKNO GRIP MAXI**.

PREPARATION OF SUBSTRATES:

Before applying **TEKNO KOLL E** ensure that the foundations are mature (one week per centimetre of thickness and at least 28 days), solid and consistent, flat and free of cracks, oil, grease, dust, paint and dirt. The lightly "dusting" surfaces must be pre-treated with the appropriate consolidating product ANTESILIC. Any openings or cracks should be sealed with ANTECRACK. Highly absorbent substrates may significantly reduce the open time and adhesion; therefore it is recommended the absorption is regulated by previously applying a layer of ANTEPRIMER (high penetration primer based on synthetic resins in a micronized water dispersion). Isolate the gypsum or anhydrite base with a layer of ANTEPRIMER. Supports and materials exposed to sunlight must be cooled by wetting them with water one hour prior to installation. Dusty tiles must be cleaned before use by "dipping" them in water and then allowing them to dry.

PREPARING ADHESIVE:

TEKNO KOLL E is mixed with approx. 6.5 to 7 litres of drinking water per 25 kg bag of the product using a suitable mixer or a low-speed drill (approx. 300 rpm / min) fitted with a whisk. Put the water into a clean bucket, add the powder and mix to obtain a smooth, lump-free and homogenous paste. Allow the mixture to stand for approx. 5 minutes. Mix again and correct the density of the paste. The adhesive mortar obtained is usable for approx. 5 hours.

APPLICATION:

Proceed by applying the adhesive to the substrate using the straight edge of a notched trowel in an amount proportional to the thickness required (usually about 3 mm). Work the adhesive using notched side of the trowel and immediately start to lay the tiles gently applying firm pressure to ensure optimum adhesive contact. Always use a notched trowel to ensure 100% coverage to the back of each tile. For "thick" posing, use of a 10 mm notched trowel is recommended and double buttering (see "Warnings"). Frequently check that the adhesive has not formed a surface skin. In this case, re-spread the adhesive. The open time of **TEKNO KOLL E** under normal conditions of temperature and humidity is more than 30 minutes, although adverse conditions (wind, high temperatures, etc.) or particularly absorbent substrates can

reduce the open time to only a few minutes. Any adjustment and levelling of the tiles can be carried out within 40 minutes of installation.

CONSUMPTION:

Depending on the flatness of the substrate and the shape of the tiles to be applied: 4 or 6 mm spatula approximately 2.5 to 3.5 kg / m²; using an 8 or 10 mm spatula 3.5 to 6 kg / m². Consider approx. 1.30 kg / m² per mm of adhesive used.

CLEANING:

Wash hands and equipment thoroughly with clean water before the mortar begins to grip, otherwise cleaning will be difficult.

HEALTH AND SAFETY:

The product is nontoxic, but Portland cement content can cause irritation to the skin and eyes. Do not breathe in dust. Take adequate protection using gloves, respirators, protective clothing and goggles. For more information, see the Safety Data Sheet.

TECHNICAL DATA	
Consistency	Grey or white powder
Grit	0 ÷ 0,6 mm.
Density of mix	1.3 gr/cm ³
Mixing water for every 25 kg bag	6.5 ÷ 7 liters
Pot Life	after 5 hours*
Application temperature range	from +5°C to +35 °C
Open time (EN1346)	≥ 30 minutes*
Sliding tile (EN1308)	≤ 0.5 mm
Adjustability time	about 40 minutes*
Set to light foot traffic	after 24 hours *
Ready for grouting on walls	after about 6 hours *
Ready for grouting on floors	after about 24÷36 hours *
Ready for use	after 14 days*
* Data expressed according to standard EN 12004 at (23 ± 2) ° C and (50 ± 5)% relative humidity. Lower temperatures increase the times of maturation and hardening. Ventilation or dry air can drastically reduce the values of open time.	

FINAL PERFORMANCE	
Initial bonding (after 28 days)	≥ 1 N/mm ²
Bonding after heat exposure (70°C)	≥ 0,5 N/mm ²
Bonding after immersion in water	≥ 0,5 N/mm ²
Bonding after freeze/thaw cycles	≥ 0,5 N/mm ²
Resistance to aging	Excellent
Resistance to moisture	Excellent

HAZARD CLASSIFICATION:

Irritant (according to Regulation 2008/1272/CE). Before use, read the instructions on the bag and its "Safety Data Sheet". Product conforms to the DM 10/05/2004. Contains less than 2 p.p.m of Cr VI.

CUSTOMS CLASS:

3824 50 90

PACKAGING:

TEKNO KOLL E is supplied in 25 kg bags on plastic-sealed wooden pallets.

STORAGE:

- Keep the product in its undamaged original packaging. Do not disperse the powder.

ANTEBIAGO SRL

Via Dell'Industria, 33 - 26016 SPINO D'ADDA (CR) - Tel. 0373/980391 Fax 0373/980872- P. Iva 00952790194
www.antebiago.it

- According to Law DM 10/05/2004, the properly stored product must be used within 12 months if white or grey in colour or 6 months from the production date printed on the bag.

WARNINGS:

- Do not use in thicknesses greater than 10 mm or when a quick step is required.
- Use only materials dimensionally stable, not sensitive to moisture and not subject to staining due to water absorption
- Protect the installed tiles from rain or water for at least 24 to 48 hours and from frost or direct sunlight for at least 2 days.
- Do not apply ice or other substrates at ambient temperatures below + 5 ° C.
- Grouting using dark coloured sealant must occur only at least 5 to 7 days after application (to ensure the substrate is dry).
- It is not recommended to add third-party products.
- In outdoor areas or in areas subject to heavy traffic a double-spreading technique is always required, i.e. application of the adhesive to the substrate using a notched trowel and "coating" of adhesive on the back of the tile.
- Do not use on tiles larger than 30x30 cm.
- Respect the existing structural joints and make any necessary expansion joints.
- Do not use in the case of rising damp.

THE PRODUCT IS FOR PROFESSIONAL USE ONLY

The above indications derive from our current best experience. Since site conditions can greatly vary, we highly recommend the user to carefully verify, with practical tests, that the product is suitable for the tasks in any case. The use takes responsibility for incorrect use.



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