

DESCRIPTION:

TEKNO KOLL BRIGHT WHITE TE is a high-quality cement-based adhesive for professional laying of ceramic and natural stone tiles. Bright white in colour, this premixed adhesive offers high mechanical performance, pure marble dust, 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 indoor and outdoor class C1 ceramic tiles with a long open time (E) and high slip-resistance (T). When mixed with the synthetic latex **TEKNO LATTICE HP** in place of water, **TEKNO KOLL BRIGHT WHITE TE** may be changed according to Directive EN 12002 into a class C2 adhesive, or "deformable adhesive" (class S1) or a "very deformable adhesive" (S2) depending on the concentrations used.

USE:

TEKNO KOLL BRIGHT WHITE TE is a professional, highly workable adhesive, even when very thickly applied, for absorbent ceramic tile laying 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. This product is particularly suitable for uneven bases or non-perpendicular walls since it spreads up to 10mm thick without dripping. For tub or outdoor pools, cement-based waterproofing such as **SUPERELASTIK**, laying large-size materials, on under-floor heating surfaces and whenever stronger adhesion or greater deformability is required, mix **TEKNO KOLL BRIGHT WHITE TE** with synthetic latex **TEKNO LATTICE HP** to ensure conformity to the requirements in Directive EN 12002 for class C2 "improved adhesive" and class S2 "very deformable adhesive", or alternatively S1 (deformable adhesive) depending on dilution. 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 BRIGHT WHITE TE** 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 BRIGHT WHITE TE is mixed with approx. 7 to 7.5 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. 65 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 BRIGHT WHITE TE** 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 45 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	white powder
Grit	0 ÷ 0,6 mm.
Density of mix	1,3 gr/cm ³
Mixing water for every 25 kg bag	7 ÷ 7,5 liters
Pot Life	after 6 hours*
Application temperature range	from +5°C to +35 °C
Open time (EN1346)	≥ 30 minutes *
Sliding tile (EN1308)	≤ 0,5 mm
Adjustability time	about 45 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 (EN 1348)
Bonding after heat exposure (70°C)	≥ 0,5 N/mm ² (EN 1348)
Bonding after immersion in water	≥ 0,5 N/mm ² (EN 1348)
Bonding after freeze/thaw cycles	≥ 0,5 N/mm ² (EN 1348)
Resistance to aging	Excellent
Resistance to moisture	Excellent

Product mixed with **TEKNO LATTICE HP:**

Initial bonding (after 28 days)	≥ 1 N/mm ²
Bonding after heat exposure (70°C)	≥ 2 N/mm ²
Bonding after immersion in water	≥ 1 N/mm ²
Bonding after freeze/thaw cycles	≥ 1 N/mm ²
Deformability (used pure)	≥ 5mm "very deformable"
Resistance to immersion	Optimum

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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 BRIGHT WHITE TE 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.
- According to Law DM 10/05/2004, the properly stored product must be used within 12 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 (before installation, check how natural stone and remixed materials react first).
- 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 only occur at least 5 to 7 days after application (to ensure the substrate is dry).
- Addition of third-party products is not recommended.
- In the case of external or busy areas, or when laying tiles larger than 30x30cm, we recommend spreading the adhesive using the double-buttering method, i.e. application of the adhesive to the substrate using a notched trowel as well as 'coating' adhesive on the back of the tile.
- Respect the existing structural joints and make any necessary expansion joints.
- Do not use in the case of rising damp

TEKNO KOLL BRIGHT WHITE TE must be mixed with synthetic latex TEKNO LATTICE HP in all the following cases:

- Laying large tiles (larger than 40x40 cm), for external façades or over underfloor heating.
- Laying tiles on a smooth surface or old ceramic tiles, or flooring subject to high degrees of wear and tear (e.g. shopping centres, factory flooring).
- Laying tiles in tubs or pools.
- If sanding is necessary (wait 28 days after laying).

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 user takes responsibility for incorrect use.