

## DESCRIPTION:

TEKNO KOLL BRIGHT WHITE TE is a cement-based adhesive for high quality professional laying of ceramic tiles and natural stones. Snow-white, is a premixed cement-based high strength, pure marble dust, special synthetic polymers and special additives. **At the end of life which the product is recyclable inert.**

## CLASSIFICATION ACCORDING TO EN 12004:

Cementitious adhesive for fixing ceramic tiles in indoor and outdoor C1, with extended open time (E) and high slip resistance (T). Mixed with the synthetic latex TEKNO LATTICE HP instead of water, TEKNO KOLL BRIGHT WHITE TE turns into an adhesive improved C2 and, in accordance to EN 12002, in "deformable adhesive" (class S1) or "very adhesive deformable" (S2) based on the concentration used.

## USE:

TEKNO KOLL BRIGHT WHITE TE is a professional adhesive high workability for laying too "thick" of absorbent ceramic tiles, floor and wall. Can be used indoors and outdoors, on all the main media used in construction, such as cement-based screeds and plasters or gypsum or lime mortar or screed ready ANTEMASS type L. The use of the product is particularly suitable in the case of substrates poorly leveled or uneven walls as it is used in thicknesses up to 10 mm without sagging. For the installation in tanks and pools, in facades, waterproof membranes, cement-based type SUPERELAST, for the installation of large format materials, floor heating on and every time you want to give the product greater adhesion and especially more deformable, kneading TEKNO KOLL BRIGHT WHITE TE with synthetic latex TEKNO LATTICE HP. In doing so the adhesive will reach the requirements of class C2 ("Adhesive improved" according to EN 12004) and Class S2 ("Adhesive very deformable" according to EN 12002) or S1 (deformable adhesive) according to the dilution. For special applications, please consult our technical department.

## DO NOT USE ON:

wood, metal, linoleum, PVC, rubber, not rigidly fixed panels, precast concrete panels or surfaces smoothed. On old ceramic tiles, use TE or TEKNO TEKNO GRIP GRIP MAXI.

## SUBSTRATE PREPARATION:

Before applying TEKNO KOLL BRIGHT WHITE TE ensure that the substrates are mature (1 week for every inch thick and at least 28 days), solid and firm, dry, level, free of cracks, oil, grease, dust, paint and dirt in general. The surfaces lightly "dusting" should be pre-treated with the appropriate strengthening product ANTESILIC. Any cracks or cracks must be sealed with ANTECRACK. I particularly absorbent substrates can significantly reduce the open time and adhesion; recommend regularize the absorption with the prior application of a coat of ANTEPRIMER (high penetration primer based on micronized synthetic resins in aqueous dispersion). Isolate the funds based on gypsum or anhydrite by applying a coat of ANTEPRIMER. The surfaces exposed to direct sunlight must be cooled inumidendoli with water one hour before laying. The tiles must be pre-cleaned by dusty "plunge" into the water and then let it dry.

## PREPARATION ADHESIVE:

TEKNO KOLL BRIGHT WHITE TE is mixed with about 7 to 7.5 liters of drinking water per 25 kg bag of product using suitable mixer or a drill at low speed (about 300 rev / min) fitted with whip attachment. Introduce water into a clean bucket, add the powder and mix until the dough is free of lumps, creamy and smooth. Let the dough rest for about 5 minutes, stir briefly and correct the density of the mixture. The adhesive mortar obtained is usable for about 6 hours.

## APPLICATION:

Proceed with the application of the adhesive to the substrate using the smooth side of the trowel in a quantity

proportional to the thickness required (usually about 3 mm). Working the adhesive with the notched side of the trowel and immediately begin to lay the tiles and applying gentle pressure to ensure good contact with the adhesive. Always choose a notched trowel to ensure coverage of 100% of the back of the tile. To perform pose "thick" it is advisable to use the 10 mm notched trowel and performing the double-spread (see "Warnings"). Frequently check that the adhesive has not formed a surface skin, in which 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, be careful because adverse conditions (wind, high temperatures, etc..) Or particularly absorbent substrates can reduce the time it opened a few minutes. Any recording of tiles must be made within 45 minutes after installation.

#### CONSUMPTION:

Depending on the flatness of the substrate and the shape of the tiles to apply: spatula with 4 or 6 mm approximately 2.5 to 3.5 kg / m<sup>2</sup>; spatula with 8 or 10 mm approximately 3.5 to 6 kg / m<sup>2</sup>. Consider about 1.3 kg / m<sup>2</sup> per mm of adhesive used.

#### CLEANING:

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

#### HEALTH AND SAFETY:

The product is not toxic, but the Portland cement content can cause irritation to skin and eyes. Do not breathe dust and protect themselves adequately with gloves, respirators, protective clothing and goggles. For more information, see the Safety Data Sheet.

<b>TECHNICAL DATE</b>	
Consistency	Bright White powder
Grit	0 ÷ 0,6 mm.
Density of mix	1,3 gr/cm <sup>3</sup>
Mixing water for every 25 kg bag	7 ÷ 7,5 liters
Pot life	about 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 heures*
Ready for grouting on floors	After about 24÷36 heures *
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.	

<b>FINAL PERFORMANCE</b>	
Initial bonding (after 28 days)	≥ 1 N/mm <sup>2</sup> (EN 1348)
Bonding after heat exposure (70°C)	≥ 0,5 N/mm <sup>2</sup> (EN 1348)
Bonding after immersion in water	≥ 0,5 N/mm <sup>2</sup> (EN 1348)
Bonding after freeze/thaw cycles	≥ 0,5 N/mm <sup>2</sup> (EN 1348)
Resistance to aging	Excellent
Resistance to moisture	Excellent

<b>Prodotto miscelato con TEKNO LATTICE HP:</b>	
Initial bonding (after 28 days)	≥ 1 N/mm <sup>2</sup>
Bonding after heat exposure (70°C)	≥ 2 N/mm <sup>2</sup>
Bonding after immersion in water	≥ 1 N/mm <sup>2</sup>
Bonding after freeze/thaw cycles	≥ 1 N/mm <sup>2</sup>
Deformability (used pure)	≥ 5mm "very deformable"
resistance immersion	Excellent

**HAZARD CLASSIFICATION:**

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

**CUSTOMS CLASSIFICATION:**

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 original packaging intact. Do not disperse dust.
- According to the DM 10/05/2004 the product properly stored must be used within 12 months if white or gray in color 6 months from production date stamped on the bag.

**WARNINGS:**

- Do not use in thicknesses greater than 10 mm or when requesting a traffic quickly.
- Use only with materials dimensionally stable and not sensitive to moisture and is not subject to staining due to water absorption (check before laying the behavior of natural stone and agglomerates).
- Protect Tiles installed for at least 24 to 48 hours from rain or water and for at least 2 days from frost and direct sunlight.
- Do not apply ice or other substrates at ambient temperatures below + 5 ° C.
- The grouting with dark-colored sealants must be made after at least 5 to 7 days after laying (for drying substrate occurred).
- It is recommended not to add extraneous products.
- When outdoors or in areas subject to heavy traffic, or with tiles of size > 30x30 cm, is always required double-spread technique, ie applying the adhesive to the substrate using a notched trowel and "coating" of adhesive on the back of the tile .
- Respect the existing structural joints and make the necessary expansion joints.
- Do not use in case of rising damp.

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

- For the installation of large format (tiles with side greater than 40 cm), to put in facades or on heated substrates.
- On smooth surfaces or old ceramic tiles or flooring mechanically stressed (shopping centers, industrial flooring).
- For the basins or swimming pools.
- In case of sanding work (wait for 28 days after installation).

**PRODUCT ADDRESSED TO A PROFESSIONAL USE**

The above statements come from our current best experience. But since the site conditions can greatly vary, we recommend the user to carefully verify with practical tests that the product is suitable for the tasks in any case; user will take accountability of any miscorrect use