

DESCRIPTION:

TEKNO KOLL HP is a cementitious adhesive for "thicker" ceramic and natural stone. 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.

USE:

TEKNO KOLL HP is a professional adhesive for laying every kind of ceramic and natural stone tiles. Suitable for indoor and outdoors, on all main supports used in building, including cement-based screeds and plaster, mortar or screed-ready **ANTEMASS L**. This product is particularly suitable for uneven bases or out-of-plumb walls as well as for laying drawn materials e.g. Tuscan Terracotta tiles or clinker, or uncalibrated materials e.g. split stone and natural stone in general. In ponds and pools, external façades, on cement-based waterproofing insulation like **SUPERELASTIK**, for laying large format materials (>30x30cm), on under-floor heated flooring and each time a greater adhesiveness and especially greater flexibility is required, mix **TEKNO KOLL HP** with synthetic latex **TEKNO LATTICE HP**. This will improve the adhesive to a **C2** class and, according to EN12002 Directive, a 'flexible adhesive' (S1 class) or 'very flexible adhesive' (S2) depending on the concentration used. For special applications, contact our technical office.

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 LATTICE HP** 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. Any openings or cracks should be sealed with **ANTECRACK**. When laying over particularly smooth and unabsorbant surfaces (e.g. concrete treated with a 'helicopter' concrete smoother), peen it beforehand or scarify and mix **TEKNO KOLL HP** with **TEKNO LATTICE HP**. The lightly "dusting" surfaces must be pre-treated with the appropriate consolidating product **ANTESILIC**. 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 LATTICE HP is mixed with approx. 6 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. 6 hours.

APPLICATION:

Spread the adhesive on the underside using a notched trowel and apply moderate pressure while laying the tiles to ensure they touch the adhesive. 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. The open time of **TEKNO LATTICE HP** under normal conditions

of temperature and humidity is more than 20 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 30 minutes of installation.

CONSUMPTION:

Depending on the flatness of the substrate and the shape of the tiles to be applied: using an 8 or 10 mm spatula 4 to 6 kg / m²; using an 20 mm spatula 6 to 12 kg / m². Consider approx. 1.40 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 powder
Grit	0 ÷ 1 mm.
Density of mix	1,4 gr/cm ³
Mixing water for every 25 kg bag	6 liters
Pot Life	after 6 hours*
Application temperature range	from +5°C to +35 °C
Open time (EN1346)	≥ 20 minutes *
Adjustability time	> 30 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

Product mixed with water:	
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

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
Flexibility (pure use)	> 5mm "very flexible"
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.

ANTEBIAGO SRL

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CUSTOMS CLASS:

3824 50 90

PACKAGING:

TEKNO KOLL HP 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 if white or grey in colour or 6 months from the production date printed on the bag.

WARNING:

- When smoothing and laying at the same time, mix with **TEKNO LATTICE HP** and wait 28 days after laying.
- For baths and pools, large format tiles, external facades or on heated flooring, mix with **TEKNO LATTICE HP**.
- In outdoor areas, in areas subject to heavy wear or for use with tiles of >30x30cm, always use a double-spreading technique, i.e. application of the adhesive to the substrate using a notched trowel and also "coating" the adhesive over the back of the tile.
- Do not use on tiles thicker than 20 mm.
- Only use materials that are size-stable that are not prone to marking from water absorption (this is to be particularly checked for natural stone and recomposed materials)
- 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.
- It is not recommended to add third-party products
- 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

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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.