

techno-one hd

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TECHNO-ONE HD

Powder adhesive with a high polymeric content and very poorly emission of dust for fixing ceramic tiles. particularly suitable for refined porcelain stoneware, over-fixing, use on heating floor surfaces, places subjected to intense traffic and swimming pools.

bonding agents and adhesives

TECHNOKOLLA®





28±1% grey
28±1% white



5-35°C



30 min



6-10 mm



6 h



10 mm



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MAIN FEATURES

- Very poorly emission of dust
- One-pack adhesive
- No creep
- Longer open time
- Frost proof
- Thicknesses up to 10 mm

ASPECT

- White or grey powder

STORAGE

- 12 months in a dry place

FIELDS OF USE

- Laying in exterior, interior, on wall and floor of ceramic tiles of every type, also of large format.
- Suitable for use when high performances are required, such as: tile fixing in industrial environments, in swimming pools or on façades.
- Laying on old ceramic tiles without the use of any primer.
- Spot-gluing insulating panels made of polystyrene, polyurethane foam, rock or glass wool.
- Fixing natural stone and marble, so long as they are not affected by water.
- Laying on watery heating screeds.
- Laying in interior and exterior on waterproofing systems such as Rasolastik range and Rasogum.

SURFACES

Cement plasters, cement lime mortars, gypsum-based plasters¹, anhydrite screeds¹, concrete, aerated concrete, old ceramic floors, old PVC floors², old vinyl floors², plasterboard, Rasolastik range, Rasogum.

¹ after application of PRIMER-T

² after application of PRIMER-101

NATURE OF THE PRODUCT

TECHNO-ONE HD mainly consists of high-strength cements, selected silicon/quartz mineral charges and specific additives.

Ask our technical department for the safety brief for further information or download it from our web-site www.technokolla.com.

OPERATIONS PRIOR TO FIXING

Small localized hollows or gravel pockets in the case of concrete can be levelled (no more than 5 mm thick) with TECHNO-ONE HD 24 h prior to fixing. If thicker layers are required, use RASO or GAP - R respectively 24 h and 6 h before fixing the tiles.

bonding agents and adhesives



RECOMMENDED ACCESSORIES



TKW 407
Blender 1200



TKW 411
TKW 412



TKW 462
Rubber mallet



TKW 111
Trowel 8x8 mm



TKW 121
Trowel 10x10 mm

HOW TO PREPARE THE MIXTURE

Grey and white TECHNO-ONE HD must be mixed with about 7 l of clean water ($28 \pm 1\%$). Blend until a homogeneous, lump-free mixture is obtained. It is advisable to use a drill at low speed (approx. 500 rpm) as a high speed will reduce the mechanical characteristics of the product. Wait 5-10 minutes, then stir the product briefly again and start fixing the tiles. The product obtained is a creamy paste that can be easily applied with a trowel and that possesses at optimum thixotropy.

WARNINGS AND RECOMMENDATIONS

It is always advisable to lay in double spread with formats $\geq 900 \text{ cm}^2$

Do not apply:

- to wood and metal
- at temperatures less than 5°C or more than 35°C
- in layers more than 10 mm thick
- old ceramic tiles outdoor.

AMOUNT REQUIRED

Trowel	6x6 mm	8x8 mm	10x10 mm
Techno-one hd	3 Kg/m ²	4 Kg/m ²	5 Kg/m ²

Amounts required are referred to the only use of the trowel and to flat substrates.

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TECHNICAL SPECIFICATIONS	VALUE	REQUISITE	STANDARD
Curing time	10 min		
Pot life	*6 h		
Open time	*30 min	°30 min	EN 1346
Adjustability time	*Aprox 50 min		
Can be subjected to traffic	*After 24-36 h		
Floor tiles can be grouted	*After 24-36 h		
Wall tiles can be grouted	*After 4-6 h		
Surface can be used	*After 14 days (21 days tanks and swimming pools)		
Creep on a vertical wall	0 mm	°≤ 0,5 mm	EN 1308
Initial tensile bond	2,0 N/mm ²	°≥ 1 N/mm ²	EN 1348
Tensile bond after the action of heat	1,8 N/mm ²	°≥ 1 N/mm ²	EN 1348
Tensile bond after immersion in water	1,3 N/mm ²	°≥ 1 N/mm ²	EN 1348
Bond after freezing/thawing cycles	1,4 N/mm ²	°≥ 1 N/mm ²	EN 1348
Compressive strength	14 N/mm ²		EN 196

° according to standard EN 12004

* these times refer to a temperature of 23°C – 50% R.H. They become shorter with higher temperatures and longer at lower temperatures.

SPECIFICATION

Ceramic floor and wall tiles must be fixed with a class “C2TE cementitious powder adhesive according to standard EN 12004”, such as the TECHNO-ONE HD type by TECHNOKOLLA, which can be applied in layers up to 10 mm thick on cementitious substrates.

Technokolla reminds you to examine the “**notes**” document that completes the information in this data sheet. The document can be downloaded in the pdf format.

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