

technostar hd

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TECHNOSTAR HD

Highly-deformable, one-pack powder adhesive with very low emission of dust. Particularly suitable for refined porcelain stoneware and large-sized natural stones. Use on heating floor surfaces, façades, industrial floors and swimming pools. Thickness up to 15 mm.

bonding agents and adhesives





29±1% grey
30±1% white



5-35°C



30 min



6-10 mm



6 h



15 mm



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MAIN FEATURES

- Very low emission of dust
- One-pack adhesive
- Thick-laying
- Frost proof
- No vertical slipping
- Highly deformable
- Thicknesses up to 15 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 every kind of ceramic tiles, 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.
- Fixing on heating floors.
- 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 old ceramic tiles without the use of any primer.
- Laying for grès porcelain tiles with slim thickness.

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

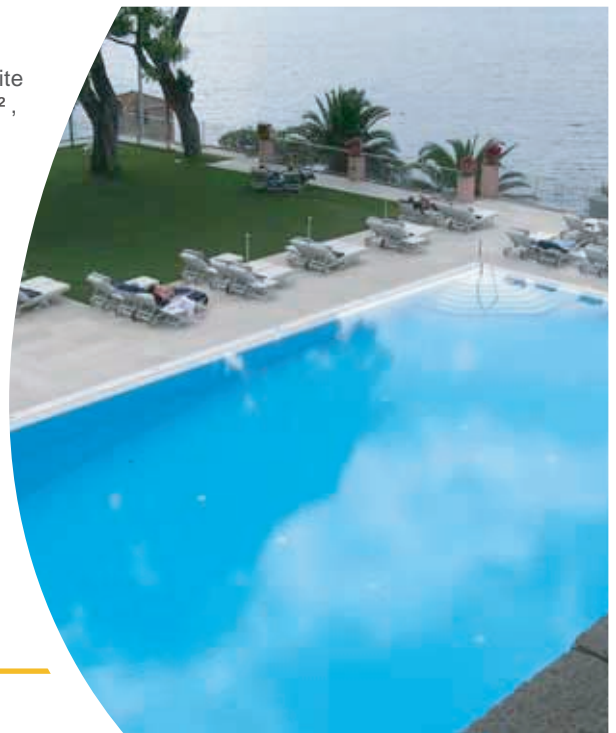
NATURE OF THE PRODUCT

TECHNOSTAR HD mainly consists of high-strength cements, selected silicon/quartz mineral charges and specific additives with HD technology. 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 TECHNOSTAR HD 24 h prior to fixing. If thicker layers are required, use RASO, GAP or GAP-R before fixing the tiles.

bonding agents and adhesives



RECOMMENDED ACCESSORIES



TKW 407
Blender 1200



TKW 411
TKW 412



TKW 462
Rubber mallet



TKW 121
Trowel 10x10 mm



TKW 181
Round trowel Ø15 mm

HOW TO PREPARE THE MIXTURE

TECHNOSTAR HD must be mixed with about 7.0 l of clean water (29±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:

- on old ceramic tiles outdoor
- at temperatures less than 5°C or more than 35°C
- to metal
- in layers more than 15 mm thick

AMOUNT REQUIRED

Trowel	8x8 mm	10x10 mm	Ø15 mm
Technostar HD	4 Kg/m ²	5 Kg/m ²	7 Kg/m ²

The amounts refer to sole 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	*Approx. 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
Transversal warping	3 mm	≥ 2,5 mm	EN 12002
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 with HD technology according to standard EN 12004 and S1 according to EN12002”, such as the TECHNOSTAR HD type by TECHNOKOLLA, which can be applied in layers up to 15 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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