

# technoflex-2

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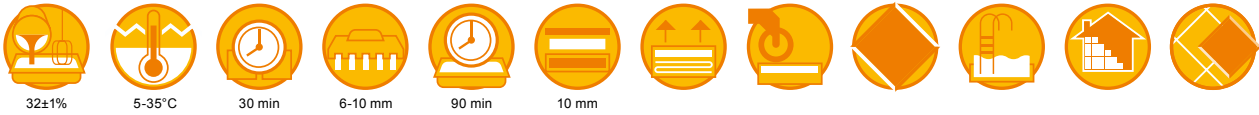
## TECHNOFLEX-2

Highly deformable monocomponent powder adhesive used in layers up to 10 mm thick. Especially suitable for fixing all kind of porcelain tiles with no size limits and natural stone in large sizes. Fixing on façades, heating screeds, in swim-ming pools and for industrial floors.

**bonding agents  
and adhesives**

**TECHNOKOLLA®**





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## MAIN FEATURES

- Highly deformable
- Lightened
- High resistance to vertical slipping (micro fiber technology)
- Extended open time
- High tensile strength
- Relieve stress, act as a decoupling layer
- Reinforced with micro fibers

## APPEARANCE

White powder

## STORAGE

12 months from date of production. The product must be stored in undamaged original sealed packaging, in dry cooled conditions, temperature between + 5 °C and + 30 °C. Please refer to the packaging.

## FIELDS OF USE

- Outdoor, indoor, wall and floor installation of ceramic tiles (single-fired, double-fired, porcelain stoneware, klinker and terracotta) with no size limits.
- Suitable for use when high performance is required, such as: installation in non-driveway industrial environments, in swimming pools or on facades.
- Over-tiling on top of old ceramic tiles without use of primer.
- Suitable for laying thin thickness porcelain stoneware slabs.
- Suitable for laying mosaic tiles (ceramic and glass)
- Fixing natural stone and marble, so long as they are not affected by water.
- Fixing on electric or water heating screeds.

## SUBSTRATES

Cement-based plaster, cement-lime mortar, gypsum-based plaster<sup>1</sup>, anhydrite screeds<sup>1</sup>, cement-based screeds, concrete, aerated concrete, old ceramic floors<sup>2</sup>, resilient floors perfectly adherent (excluding polyolefin coatings)<sup>2</sup>, plasterboard<sup>1</sup>, RASOGUM + or products of RASOLASTIK range.

<sup>1</sup> after application of PRIMER-T PLUS

<sup>2</sup> after application of PRIMER-101 PLUS

## NATURE OF THE PRODUCT

TECHNOFLEX-2 mainly consists of cement Portland, selected aggregates, special additives, re-dispersible polymer, micro fibers. For further details, ask the technical office for the safety brief or download it from the web site [www.technokolla.com](http://www.technokolla.com).

## bonding agents and adhesives



## RECOMMENDED ACCESSORIES



### OPERATIONS PRIOR TO APPLICATION

Substrates must fulfill the requirements of the local standards, be properly cured, structurally sound, dimensionally stable, free of any loose or friable particles, clean, dry and free of any contaminants such as dust, dirt, oil, grease, release agent, cement laitance or efflorescence. Cement substrates should not be subject to shrinkage after the installation of the product, therefore they must be properly cured. Comply with local standards. Depending on the substrate condition and contaminants to be removed from the surface, perform adequate preparation techniques, such as water-jet washing or blastcleaning, in order to remove all traces of any materials that could reduce the product's adhesion to the substrate. Cracks in substrates must be identified and sealed appropriately e.g. with REPAIR epoxy resin. On non-absorbent or substrates with limited absorbency, such as existing ceramic tiles etc., check to confirm that these surfaces are all firmly and securely bonded and stable, then use suitable degreasing/descaling products to thoroughly and completely clean the surface e.g. with DET BASICO and DET ACIDO. For applications in hot climates / environments and / or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to the product application, but avoid any ponding / standing water on the surface, which must not be damp to touch and not with a dark-matt / wet surface appearance i.e. it must be saturated surface dry (SSD). For tiling in frequently damp or wet rooms, then a suitable TECHNOKOLLA® waterproofing product / system should be applied before the tiling. Small localized hollows or gravel pockets in concrete can be leveled (thickness not more than 5 mm) with TECHNOFLEX-2 24 h prior to fixing. If thicker layers are required, use RASO, GAP or GAP-R before fixing tiles.

### HOW TO PREPARE THE MIXTURE

Blend TECHNOFLEX-2 with approximately 6,4 l of clean water (32±1%). Blend until mixture is homogeneous and lump-free. It is advisable to use blender at low speed (approx. 500 rpm) as high speed will reduce the mechanical characteristics of the product. Wait 5-10 minutes, then stir the product briefly again before applying. The creamy paste obtained can be easily applied by trowel and possesses optimum thixotropy.

### APPLICATION

Apply using a notched trowel. Apply sufficient product to ensure complete 'wetting' of the back of the tiles. Tiling must be carried out on freshly applied adhesive, applying adequate pressure to ensure complete and uniform contact with the adhesive and thus optimum bond. If a film is seen to form on the surface, the adhesive has been left for too long, then immediately remove the adhesive layer with the trowels, discard this material and apply a fresh layer of adhesive. Do not wet the adhesive once applied, as the water compromises the adhesion. Avoid application in direct sunlight and/or strong wind / draughts.

### WARNINGS AND RECOMMENDATIONS

It is always advisable to apply two coats when laying tile sizes measuring 900 cm<sup>2</sup> or larger. Gypsum substrates must have a maximum moisture content of 0,5 %. Protect freshly applied material from freezing conditions, rain and any other environmental influences. Apply a test area prior to carrying out any work with natural stone tiles.

#### Do not apply to:

- metal
- old tiles outdoors

#### Do not use:

- at temperatures less than 5°C or more than 35°C
- in coats more than 10 mm thick

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CONSUMPTION			
Trowel	6x6 mm	8x8 mm	10x10 mm
Technoflex-2	~ 1.5 Kg/m <sup>2</sup>	~ 2.0 Kg/m <sup>2</sup>	~ 2.5 Kg/m <sup>2</sup>

Consumption data refer to sole use of a trowel on flat substrates.

TECHNICAL DATA	VALUE	REQUIREMENT	STANDARD
Curing time	3 min		
Pot life	90 min		
Open time	*30 min	°30 min	EN 1346
Treadable	*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 for tanks and swimming pools)		
Creep on vertical wall	*≤ 0,5mm	°≤ 0,5mm	EN 1308
Transverse deformation	≥ 5 mm	≥ 5 mm	EN 12002
Initial tensile strength	~2,5 N/mm <sup>2</sup>	°≥ 1,0 N/mm <sup>2</sup>	EN 1348
Tensile strength after the action of heat	~3 N/mm <sup>2</sup>	°≥ 1,0 N/mm <sup>2</sup>	EN 1348
Tensile strength after immersion in water	~1,3 N/mm <sup>2</sup>	°≥ 1,0 N/mm <sup>2</sup>	EN 1348
Bond after freezing/thawing cycles	~1,8 N/mm <sup>2</sup>	°≥ 1,0 N/mm <sup>2</sup>	EN 1348

° according to standard "EN 12004"

\* time intervals refer to a temperature of 23°C-50% R.H.. They become shorter with higher temperatures and longer at lower temperatures.

## EMICODE

Emission class	r.p. No. Eurofins
EC1 Plus	392-2020-00480901

## FRENCH VOC LABEL

Emission class	r.p. No. Eurofins
Classe A+	392-2020-00480901

## SPECIFICATION

Ceramic floor and wall tiles must be laid with certified class "C2TE S2 cement-based powder adhesive according to standard 12004" such as TECHNOKOLLA's TECHNOFLEX-2, which can be applied in layers up to 15 mm thick on cement-based 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 from the website [www.technokolla.com](http://www.technokolla.com).

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