

**techno s-one**  
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#### **TECHNO S-ONE**

Highly deformable monocomponent powder adhesive to fix ceramic tiles and natural stone in large sizes.

Fixing on façades, heating screeds, in swimming pools and for industrial floors.

**bonding agents  
and adhesives**

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30±1%

5-35°C

30 min

6-10 mm

5 h

10 mm

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## MAIN FEATURES

- Monocomponent
- Frost proof
- No vertical creep
- Highly deformable
- Layers up to 10 mm thick

## APPEARANCE

White or grey powder

## STORAGE

12 months in dry place

## FIELDS OF USE

- Fixing ceramic tiles of all types, even large sizes, on walls and floors, indoors and outdoors.
- Suitable for use when high performance is required, such as: tile laying in industrial environments, swimming pools or facades.
- Over-tiling on top of old ceramic tiles without use of primer.
- Suitable for fixing thin porcelain stoneware slabs.
- Fixing natural stone and marble, so long as they are not affected by water.
- Fixing on electric or water heating screeds.
- Spot-glueing insulating panels made of polystyrene, polyurethane foam, rock or glass wool.

## 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, old linoleum floors<sup>2</sup>, PVC<sup>2</sup> or vinyl<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

## NATURE OF THE PRODUCT

TECHNO S-ONE mainly consists of high-strength cements, selected mineral charges and specific additives.

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).



## RECOMMENDED ACCESSORIES



Blender



White rubber mallet



28x12 cm trowel stainless steel  
10 mm square serrations



28x12 cm trowel stainless steel  
Ø 15 mm rounded serrations

### 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 TECHNO S-ONE 24 h prior to fixing. If thicker layers are required, use RASO, GAP or GAP-R before fixing tiles.

### HOW TO PREPARE THE MIXTURE

Mix TECHNO S-ONE with approximately 7.5 l of clean water (30±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 3 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.

#### Do not apply to:

- metal

#### 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	8x8 mm	10x10 mm	Ø 15 mm
TECHNO S-ONE	~ 4 kg/m <sup>2</sup>	~ 5 kg/m <sup>2</sup>	~ 7 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	*5 h		
Open time	*30 min	°30 min	EN 1346
Adjustability time	*Approx. 45 min		
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	≤ 0.5 mm	°≤ 0.5 mm	EN 1308
Transverse deformation	2.5 mm	≥ 2.5 mm	EN 12002
	<b>GREY</b>	<b>WHITE</b>	
Initial tensile strength	~ 2.3 N/mm <sup>2</sup>	1.8 N/mm <sup>2</sup>	°≥ 1 N/mm <sup>2</sup> EN 1348
Tensile strength after the action of heat	~ 2.6 N/mm <sup>2</sup>	1.8 N/mm <sup>2</sup>	°≥ 1 N/mm <sup>2</sup> EN 1348
Tensile strength after immersion in water	~ 1.0 N/mm <sup>2</sup>	1.0N/mm <sup>2</sup>	°≥ 1 N/mm <sup>2</sup> EN 1348
Bond after freezing/thawing cycles	~ 1.6 N/mm <sup>2</sup>	1.6 N/mm <sup>2</sup>	°≥ 1 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.

## SPECIFICATION

Ceramic floor and wall tiles must be laid with certified class "C2TE S1 cement-based powder adhesive according to standard 12004" such as TECHNOKOLLA's TECHNO S-ONE, 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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