

# tehtoniko

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## TECHTONIKO

Waterproofing mortar with osmotic action.

## waterproofing products

**TECHNOKOLLA**





25±1%



5-35°C



45 min



Brush/  
Smooth trowel



3 mm

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## APPEARANCE

Grey powder

## STORAGE

12 months in dry place

## FIELDS OF USE

- Counterthrusting waterproofing of: walls against the ground, lift wells, water tanks and cisterns, underpasses, foundation beds, swimming baths.
- Waterproofing works for holding water, such as: ducts, tanks or cisterns.



## SUBSTRATES

Cast or precast concrete, high-strength cement-based plaster well bonded to the substrate, bonded cement-based screeds.

NOTE: The above mentioned substrates must be sound and compact.

## DO NOT APPLY TO:

Gypsum, plasterboard, anhydrite screeds, wood. Surfaces treated with paints, lacquer, plastic coatings or bitumen. Surfaces where water seeps or stagnates.

## NATURE OF THE PRODUCT

TECHTONIKO mainly consists of high-strength cements, selected quartz charges and specific additives. Ask the technical office for the safety brief for further details.

## CONSUMPTION

1.4-1.5 kg/m<sup>2</sup> per mm of thickness



## RECOMMENDED ACCESSORIES



**437145**

Blender 1200



**437183**

Rod with three coils



**437187**

28x12 cm smooth trowel

### OPERATIONS PRIOR TO APPLICATION

Prior to treatment with TECHTONIKO, create a cove base in the corners of the room to be waterproofed using mortar conforming to class R3 of standard UNI EN 1504-3. If there are localized infiltrations of water, block the flow before applying TECHTONIKO, using very quick-setting mortar (approx. 30 sec.) after having widened the hole through which the water comes by 1-2 cm, to obtain an upturned cone shape. Read the relative brief for more details.

### HOW TO PREPARE THE MIXTURE

TECHTONIKO can be applied by either brush or trowel. Blend product with  $25\pm 1\%$  of clean water (6.5 l. per bag) until mixture is creamy 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.

### APPLICATION

Prior to application, it is essential to wet the substrate with plenty of water. Make sure that there are no puddles on any part of the substrate before applying Techtoniko.

In the case of counterthrusting waterproofing, it is essential for the first coat to be applied by brush to ensure that it penetrates sufficiently into the substrate.

Successive coats of TECHTONIKO must be applied by brush or trowel when the previous coat has dried sufficiently (approx. 2 h). The overall thickness must not exceed 4 mm.

If the surface must be plastered or cement-based screeds created, cover TECHTONIKO after at least 6 h and no later than 12 h using sand and cement rendering blended with TC-LAX.

### WARNINGS AND RECOMMENDATIONS

- If the temperature is high, or the substrates are exposed to the sun or on windy days, wet the substrate prior to application but prevent puddles from forming. Once the product has been applied, spray water on the surface for the first two days.
- Do not apply to surfaces subject to flexural stress.
- Do not use to resolve problems with condensation.
- Do not mix product with other materials or binders.

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TECHNICAL DATA	VALUE	STANDARD
Appearance	Grey powder	
Volume mass of mixture	approx. 2.0-2.15 kg/l	
Water required for mixing	25±1% (6.5 l. per 25 kg bag)	
Time interval between coats	*2 h	
Pot life of mixture	* approx. 45 min	
Ready for use (positive pressure)	7 days	
Temperature during application	min. +5°C, max +35°C	
How to clean tools	with water while still wet	
Resistance to negative hydrostatic pressure	no passage up to 250 kPa	UNI 8298-8
Resistance to positive hydrostatic pressure	no passage after 7 days at 150 kPa	UNI EN 14891
Bond to concrete substrate	approx. 0.6 Mpa	

FINAL PERFORMANCE	VALUE
Compressive strength after 28 days	≥ 30 N/mm <sup>2</sup>
Bond	approx. 0.6 N/mm <sup>2</sup>

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

## SPECIFICATION

Waterproofing by application of pre-mixed osmotic mortar blended with water only, such as TECHNOKOLLA's TECHTONIKO. The mortar must be applied in two or three crossed coats, one 2 h after the other.

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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