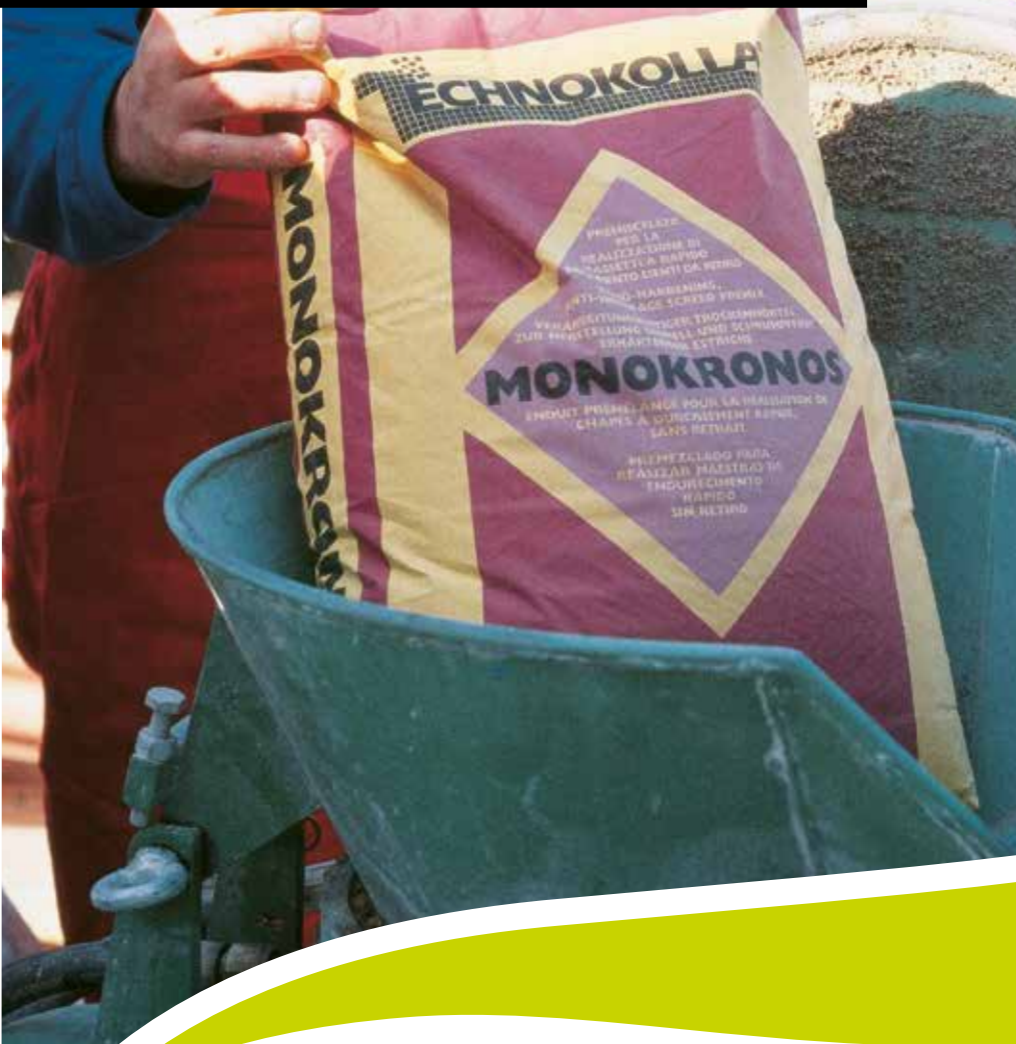


# monokronos

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## MONOKRONOS

Pre-mixed, quick-drying, controlled shrinkage product for making indoor and outdoor screeds, to be covered by ceramic tiles and parquet fixed with adhesive.

## substrate preparation

**TECHNOKOLLA®**

A SIKA BRAND



Concrete mixer/Pump



5 - 35°C



Striker



60 min.



6 cm



6 cm



6 cm

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## MAIN FEATURES

- Complete with sand
- Controlled shrinkage
- Medium-fast drying
- Optimum finish

## APPEARANCE

Grey coloured granular product

## STORAGE

12 months in dry place

## FIELDS OF USE

- Making screeds 3 to 6 cm thick in civil or industrial buildings. Can be covered with tiles, parquet, resilient materials and natural stone.
- Heating screeds, by burying radiating coils in the layer.
- In view of the practical way in which MONOKRONOS can be used, it is ideal for restoration work, especially in historical town centers where it is often not possible, or very costly, to bring sand. Thanks to its technical characteristics, it can also be used in civil constructions, offices, shopping centers, etc.



## NATURE OF THE PRODUCT

MONOKRONOS mainly consists of high-strength hydraulic binders, 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).

## APPLICATION

The product can be used to create screeds fixed to the substrate or raised screeds, i.e. formed over a separating layer, generally sheets of PVC. In this case, screed thickness must be at least 4 cm.

## HOW TO PREPARE THE MIXTURE

Besides binder, MONOKRONOS already contains quartz sand in full-range grain size, making it perfectly workable and able to provide an optimum finish. Blend the product in a normal concrete mixer, a screw mixer of the Turbosol type or continuous blender of the Continental or PFT type. The water must be dosed so as to obtain a pliable, highly workable mixture. Too little water (consistency of damp soil) will considerably reduce the mechanical strength of the finished screed. On the other hand, too much water (fluid) will increase hygrometric shrinkage, making it dangerous to fix ceramic tiles after only 24 h.

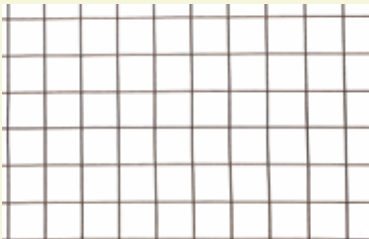
## substrate preparation



## RECOMMENDED ACCESSORIES



Fiber



Metal net

NOTE: Fiber can be used instead of metal net when the screed is not liable to flexural stress, such as application on a concrete bed.

In the case of slab floors, use of Fiber together with metal netting reduces the risk of cracks forming in the screed.

Blending must not last more than 4 minutes. Do not leave the concrete mixer turning with product inside.

### APPLICATION

Compressible material must be positioned all round the edges of the room and around any pillars, so as to create the perimeter joint. Application is performed in the same way as normal cement-based screeds, by preparing level strips which will then serve when the product is spread by striker. Float finishing must be carried out immediately after the product has been spread, or within 60 minutes.

### CONSUMPTION

~ 16-18 kg/m<sup>2</sup> per cm of screed thickness

### WARNINGS AND RECOMMENDATIONS

- do not use MONOKRONOS if parquet must be fixed in less than 10 days
- in the case of parquet flooring, position the vapour barrier before casting the screed
- before fixing parquet, check with a carbide hygrometer to make sure that residue humidity is < 2%
- do not use the product after it becomes difficult to apply. Prepare fresh mixture
- do not add other binders to the product (cement, lime, gypsum, etc.)
- if tiles are laid within a short time (24 h), the joints between them must be at least 3-4 mm
- do not apply at temperatures lower than 5°C or higher than 35°C

# monokronos

TECHNICAL DATA	VALUE	STANDARD
Water required for mixing	~ 1.8-2.0 l. per bag	
Pot life	*45 min	
Treadable	*after 12 h	
Ceramic tiles can be laid	after 24 h	
Natural stone and marble can be laid	‡ after 72 h	
Parquet can be laid	° after 7 days	
Compressive strength after 7 days	≥ 13 N/mm <sup>2</sup>	EN 13892-2
Compressive strength after 28 days	≥ 25 N/mm <sup>2</sup>	EN 13892-2

\* these time intervals refer to a temperature of 23°C – 50% R.H.

° these time intervals refer to screeds ≤ 5 cm thick, at a temperature of 23°C-50% R.H. and ≥ 2 m/sec ventilation.

‡ wait 7 days before laying stone or marble affected by the damp.

## SPECIFICATION

Screeds must be made with controlled shrinkage pre-mixed product such as TECHNOKOLLA's MONOKRONOS, which guarantees ≥ 25 N/mm<sup>2</sup> compressive strength after 28 days. Screeds must allow ceramic tiles to be fixed 24 h after application and parquet after 7 days.

**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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