

# kronos



## KRONOS

Quick-drying, controlled shrinkage binder for making indoor and outdoor screeds, to be covered by ceramic tiles and parquet fixed with adhesive.

## substrate preparation

**TECHNOKOLLA**





Concrete mixer/Pump



5 - 35°C



Striker



60 min.



10 cm



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## MAIN FEATURES

- Controlled shrinkage
- Dries more slowly
- Optimum finish

## APPEARANCE

- Impalpable grey powder

## FIELDS OF USE

- Making screeds ~5 to 100 mm 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.

## NATURE OF THE PRODUCT

KRONOS mainly consists of high strength hydraulic binders 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 (consult the introductory part for more details).

## HOW TO PREPARE THE MIXTURE

Mix KRONOS and clean aggregates with 0 to 8 mm continuous grain size. The amount of binder required depends on the type of cladding.

Use 200 kg/m<sup>3</sup> of aggregate when tiles or natural stone materials must be laid; 250 kg/m<sup>3</sup> of aggregate for parquet or resilient materials (see table). The mixture can be blended in a normal concrete mixer or screw mixer of the Turbosol type. The water must be dosed so as to obtain a pliable, highly workable mixture.

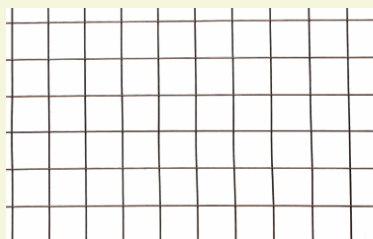


## substrate preparation

## 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 net reduces the risk of cracks forming in the screed.

### APPLICATION

Compressible material must be positioned all round the edges of the room and around any pillars, so as to create the insulation 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. Do not smooth the surface to an excessive extent if parquet flooring must be fixed to the screed, as the product could take longer to dry.

### RECOMMENDED DOSES

|                           |                  |            |
|---------------------------|------------------|------------|
| Kronos                    | 200-250 kg       | 25 kg      |
| Aggregates from 0 to 8 mm | 1 m <sup>3</sup> | 200-160 kg |
| Water                     | ~ 140-150 l.     | ~ 11-12 l. |

### CONSUMPTION

In the recommended doses, ~ 1.8-2.5 kg/m<sup>2</sup> per cm of screed thickness

### WARNINGS AND RECOMMENDATIONS

- use clean, dust-free aggregate of the recommended size
- 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 30°C

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| TECHNICAL DATA                       | VALUE                     | STANDARD   |
|--------------------------------------|---------------------------|------------|
| Pot life                             | *60 min                   |            |
| Treadable                            | *after 12 h               |            |
| Ceramic tiles can be laid            | *after 24 h               |            |
| Natural stone and marble can be laid | *‡ after 48 h             |            |
| Parquet can be laid                  | ° after 7 days            |            |
| Compressive strength after 24 h      | § ≥ 7.5 N/mm <sup>2</sup> | EN 13892-2 |
| Compressive strength after 28 days   | § ≥ 25 N/mm <sup>2</sup>  | EN 13892-2 |
| Flexural strength after 24 h         | § ≥ 2.5 N/mm <sup>2</sup> | EN 13892-2 |
| Flexural strength after 28 days      | § ≥ 6 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.

§ with 250 kg/m<sup>3</sup> dosage.

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

## SPECIFICATION

Screeds must be made with binder such as TECHNOKOLLA's KRONOS which, used in 250 kg doses per m<sup>3</sup> of sand, guarantees 20 to 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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