

## Specification

### - SCREED

Cement-based mortar screed whose minimum thickness depends on the heating system used, with radiating panels for heating purposes installed in the floor, using quickly evaporating, normally setting binder such as Technokolla's **KRONOS** and siliceous aggregates with 0 to 8 mm continuous grain size, reinforced with synthetic fibers and/or metal netting. Screed resistance must be 28-30 N/mm<sup>2</sup> after 28 days and allow the tile laying procedure 3 days after casting.

Screed reinforcing with fiber such as Technokolla's **FS-18** and/or 5x5 cm mesh Ø 2 mm galvanized metal netting positioned at 1/3rd of the screed layer. Dosage for 1 m<sup>3</sup> of 0 to 8 mm aggregate: 250 kg **KRONOS**; 150 l water 1 kg **FS-18** fiber.

### - FLOORING

Flooring and skirting with ceramic tiles of up to the 3600 cm<sup>2</sup> format, fixed to a **KRONOS** screed with cement-based adhesive such as Technokolla's **TECHNOSTAR HD**, which conforms to European standards **EN 12004 C2TE**, **EN 12002 S1**, or **TECHNOLA** with **TC-LASTIC**, conforming to European standards **EN 12004 C2TE**, **EN 12002 S2**.

4-5 mm joints grouted with low modulus cement-based grouting such as Technokolla's **TECHNOCOLORS** or **TOPSTUK**, which conform to European standard **EN 13888 CG2**.

Joints sealed with Technokolla's **ACESIL-310**, with the addition of synthetic cord.

To proceed in the correct way, it is advisable for the silicone sealant to be applied before grouting with cement-based products. Amount of adhesive required: 4 kg/m<sup>2</sup>; amount of grouting required: 0.35 kg/m<sup>2</sup> (30x30 cm format, 4 mm joints)

### HOW TO LAY FLOOR CLADDING ON HEATING FLOORS:

- 1 - turn on the heating 3 days after applying **KRONOS**
- 2 - increase the temperature by 5°C each day until reaching the operating rate
- 3 - keep the heating system at this temperature for 7 days
- 4 - turn off the heating for 3 days
- 5 - turn the heating on again and bring it to half its operating rate with 5°C increases per day
- 6 - lay the tiles

- Certified high-performance adhesives and must be made at the right time
- The joints between the tiles must be at least 4 mm wide so as to check their limits
- Read the technical data sheets of the materials used to withstand the dimensional variations of the materials
- Low modulus adhesives and grouting compounds able to follow the joints
- The joints are essential and must be made to suit the flooring material
- It is important to comply with the instructions for turning on the system (described further on) before laying the performance
- The substrate must provide a high mechanical heat dispersion
- The screed mixture must perfectly cover the coils to prevent

### And we know how to solve them

- Screeds that are unable to contain the coils
- Irregular screeds
- Sudden temperature variations and expanding materials
- Tiles of an unsuitable size or nature
- Closely laid tiles
- Unsuitable adhesives and grouting
- No expansion joints

### We understand the problems

## Heating floors

Technokolla  
system  
design  
systems

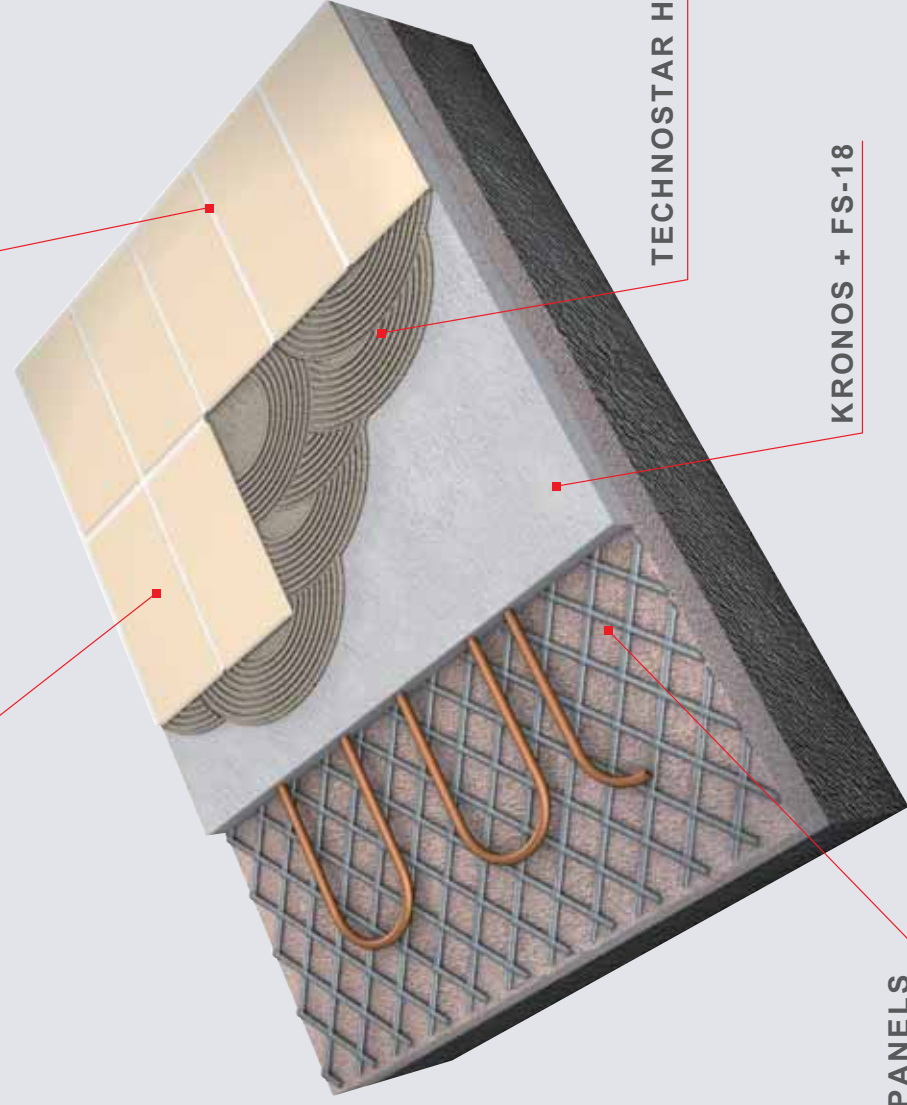
## Heating floors



# 03 Heating floors

TILES

TECHNOCOLORS



TECHNOSTAR HD

KRONOS + FS-18

RADIATING PANELS



## Kronos

A binder to use instead of cement to form screeds. Guarantees > 30 MPa compressive strength. The product features compensated shrinkage and the fixing procedure can begin just 3 days after casting. It can be reinforced with **FS-18** synthetic fibers and/or electrowelded netting to increase its compressive and flexural strength still further. Recommended thickness min. 4 max. 8 cm.



## Technostar HD

The highly flexible **one-pack** adhesive to be used in thick layers for laying outdoor floors and walls in non-absorbent materials such as vitrified stoneware in formats up to 3600 cm<sup>2</sup>.

**TECHNOSTAR** conforms to European standards **EN 12004 C2TE**, **EN 12002 S1**.



## Technola with TC-Lastic

The highly flexible **two-pack** adhesive which, in this system, can be used for formats measuring up to 3600 cm<sup>2</sup>.

**TECHNOLA** with **TC-LASTIC** conforms to European standards **EN 12004 C2TE**, **EN 12002 S2**.



## Topstuk

The **low modulus** mould-proofing and water repellent grouting that's ideal for use in damp places

**TOPSTUK** conforms to European standards **EN 13888 CG2**, **EN 12002 S1**.

As an alternative, the same characteristics can be obtained with **TECHNOSTUK G.F.** and **TECHNOSTUK 2-12**, mixed with **TC-STUK** latex.



## Technocolors

This is a revolutionary cement-based sealant for building purposes. A newly formulated highly water-repellent product, it features an extraordinarily velvety finish and an exceptional gloss. Thanks to its extraordinary characteristics, it is ideal for all types of ceramic tiles, marble and heating screeds.

**TECHNOCOLORS** conforms to European standard **EN 13888 CG2**.



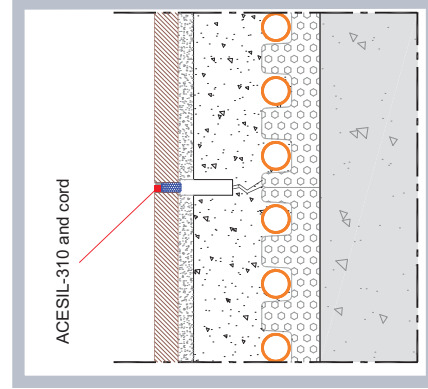
## Acesil-310

The long-life silicone and elastomer-based sealant used for filling expansion joints. It is used with the cord, which should be positioned at the base of the joint before **ACESIL-310**

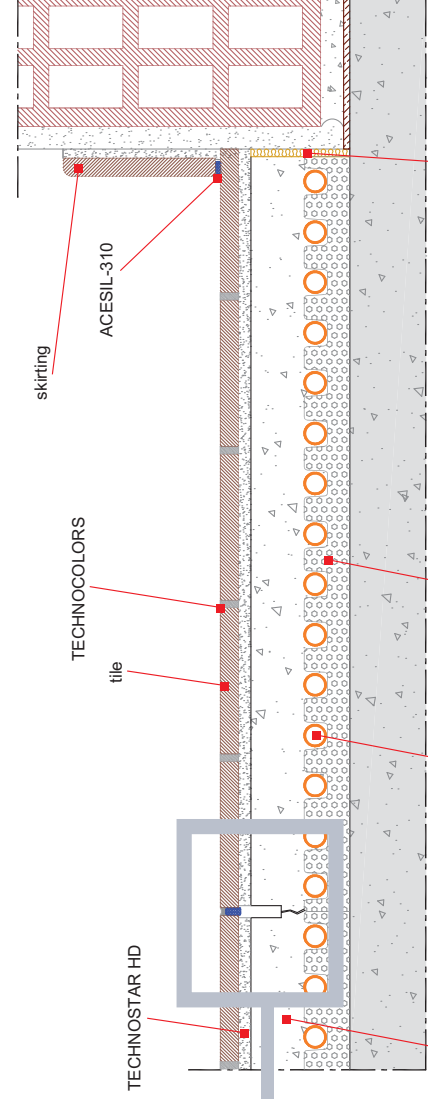


**Technokolla**  
system  
design systems

# Technical Drawings



ACESIL-310 and cord



skirting

TECHNOCOLORS

tile

ACESIL-310

TECHNOSTAR HD

KRONOS with FS-18 fiber

coil

insulating layer

compressible material

R E C O M M E N D E D P R O D U C T

R E C O M M E N D E D P R O D U C T

