



FÜR HANDWERK, DAS ÜBERZEUGT.

# TECHNICAL DATA SHEET

## BLANKE PERMATOP SF 14

Modular, thin layer underfloor heating system for tiles and natural stone coverings



### Technical data

#### BLANKE SF BASE (fibre fabric mat):

Material thickness:	1.0 to 1.5 mm (manufacturing tolerance)
Roll width:	1.05 m
Roll length:	20 m
Maximum live load:	Ceramic/natural stone 2.0 kN/m <sup>2</sup> (kPa) (200 kg/m <sup>2</sup> ) Breaking force (F) of tile min. 1,500 N >+10 °C
Processing temperature:	>+10 °C

#### BLANKE SF KLETT-TEC (heating and cooling pipe):

Material:	PE-RT 5-layer pipe
Diameter:	14x2 mm
Roll length:	120; 500 m

Material requirements for an installation gap of 10 cm: 10 m/m<sup>2</sup>  
Material requirements for an installation gap of 5 cm: 20 m/m<sup>2</sup>  
Material requirements for an installation gap of 15 cm: 6.70 m/m<sup>2</sup>

#### BLANKE FILLTHERM (energy distribution layer):

Working life (pot life):	approx. 20 minutes
Ready for laying ceramic coverings:	at the earliest after approx. 24 hrs. in conjunction with BLANKE PERMAT
Ready for laying natural and synthetic stone coverings:	at the earliest after approx. 72 hrs. in conjunction with BLANKE PERMAT
Mix ratio:	25 kg powder + 3.5 litres of water
Layer thickness over heating pipe:	1 - 11 mm
Layer thickness from SF-Base max:	25 mm
Consumption:	1.9 kg/m <sup>2</sup> per mm of layer thickness
Storage:	6 months, cool and dry in original package
EMICO DE:	EC 1PLUS R: Very low emission
GISCODE:	ZP1 - Cement Products, low in chromate

### Features

- > Thin layer
- > Fast-reacting
- > Lightweight
- > Perfectly matched system components

### Product description

BLANKE PERMATOP SF 14 consists of a self-adhesive fibre fabric mat, a high-quality PE heating pipe with Velcro fasteners, and a fast-curing energy distribution layer. The tried-and-trusted BLANKE PERMAT decoupling mat as well as the BLANKE RDS 5/50 edge insulation strips round off this system perfectly. BLANKE PERMATOP SF 14 is suitable for heating and cooling rooms with a very low installation height.

### Areas of application

BLANKE PERMATOP SF 14 can be used on firm substrates that are suitable for laying tile surfaces. These include in particular old screed substrates, existing tile surfaces as well as securely screwed-down OSB boards and dry screeds.

### Installation

Substrates must be primed with BLANKE GROUND according to their type. The self-adhesive fibre fabric mat BLANKE SF BASE is laid out and pressed down over the whole surface of the substrate. The heating pipes are laid out in a spiral pattern matching the predetermined grid on the fibre fabric mat. No other affixing is required thanks to the Velcro fastening technology. The heating conductors are encapsulated with BLANKE FILLTHERM. The pipe covering must be at least 1 mm thick. The BLANKE PERMAT decoupling mat can be bonded after the BLANKE FILLTHERM has cured. Afterwards, the tile surface can be glued in thin bed mortar. When using non-ceramic coverings such as PVC, linoleum or other soft coverings, BLANKE PERMAT must always be used and filled with a low-stress levelling compound. The elevation of the filler must be at least 3 mm to 5 mm depending on the manufacturer.

**Note:** Please observe the technical data sheet for BLANKE PERMAT. The key performance data for the system are available on request.

**Attention:** It is beyond the scope of our responsibility to ensure the appropriate and thus successful utilisation of our products. Liability can therefore only be assumed for the quality of our products within the scope of our terms of sales and delivery, but not for a successful installation. This data sheet supersedes all previous technical data sheets for this product. We reserve the right to make changes which represent technical progress. Information provided by our employees which goes beyond the scope of this data sheet requires written confirmation.

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