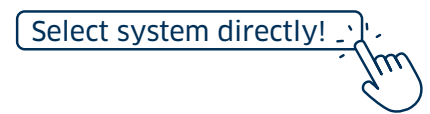


TECHNICAL DATA SHEET

BLANKE PERMATOP SF-Family



BLANKE PERMATOP SF

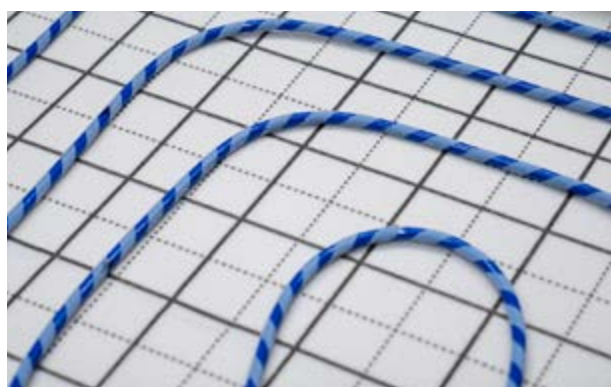
BLANKE PERMATOP SF 14

BLANKE PERMATOP SF SPA

TECHNICAL DATA SHEET

BLANKE PERMATOP SF

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 ² (kPa) (200 kg/m ²) Breaking force (F) of tile min. 1,500 N
Processing temperature:	>+10 °C

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

Material:	BF/C
Diameter:	10 x 1.3 mm
Roll length:	70 m, 120 m, 500 m

Material requirements for an installation gap of 10 cm: 10 m/m²
Material requirements for an installation gap of 5 cm: 20 m/m²

BLANKE SF FILLER (energy distribution layer):

Working life (pot life):	approx. 30 minutes
Walkable after:	approx. 3 hours
Ready for covering:	after 3 hours with BLANKE PERMAT after 12 hours with sealing BLANKE DISK
Mix ratio:	25 kg powder + 6.5 litres of water
Layer thicknesses:	1 - 20 mm
Consumption:	1.5 kg/m ² 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 consists of a self-adhesive fibre fabric mat, a high-quality PE heating pipe including Velcro technology, and a self-levelling, cement-based 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 is suitable for heating and cooling rooms with a very low installation height.

Areas of application

BLANKE PERMATOP SF 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 pipes are encapsulated with BLANKE SF FILLER. The pipe covering must be at least 1 mm thick. The BLANKE PERMAT decoupling mat can be glued once the BLANKE SF FILLER 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 coverage of BLANKE PERMAT by the levelling compound 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.

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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 ² (kPa) (200 kg/m ²) Breaking force (F) of tile min. 1,500 N
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/m²
Material requirements for an installation gap of 5 cm: 20 m/m²
Material requirements for an installation gap of 15 cm: 6.70 m/m²

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 ² 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.

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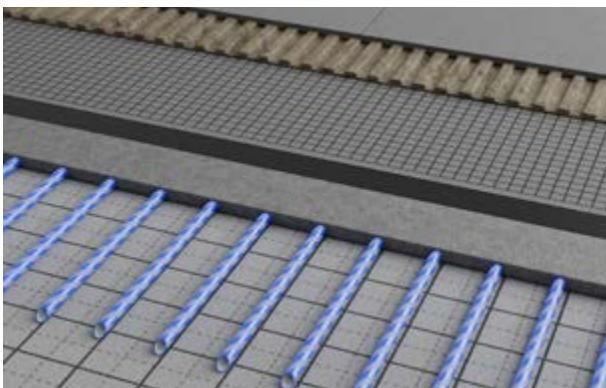
I www.blanke-systems.com
I www.blanke-blue-base.com

Author: AWT - 27/11/2025
English: 27/11/2025

TECHNICAL DATA SHEET

BLANKE PERMATOP SF SPA

Modular, thin-layer underfloor system for bathrooms (wet rooms)
with standard-compliant waterproofing in accordance with DIN 18534



Technical Data

BLANKE SF BASE (fiberglass mesh mat):

Material thickness:	1.0 mm (manufacturing tolerances possible)
Roll width:	1.05 m
Roll length:	20 m
Maximum traffic load:	Ceramic / natural stone 3.0 kN/m ² (kPa) (300 kg/m ²) at 25 mm Fillocreed thickness Breaking force (F) tile min. 1.500 N
Processing temperature:	> +10°C

BLANKE SF / SF14 KLETT-TEC (heating and cooling pipe):

Material:	PE-RT 5-layer pipe with EVOH oxygen barrier layer
Diameter:	10 x 1.3 mm / 14 x 2.0 mm
Roll length:	70 m, 120 m, 500 m (HR: 10x1.3 mm) 120 m, 500 m (HR: 14x2.0 mm)

Material requirement with a pipe spacing of 10 cm:	10 m/m ²
Material requirement with a pipe spacing of 5 cm:	20 m/m ²

BLANKE FILLOCREED (energy distribution layer):

Pot life:	approx. 30 min at 20°C
Walkable:	approx. 2-3 hrs
Ready for covering:	after 12 hrs with waterproofing membrane BLANKE DISK
Mixing ratio:	25 kg powder + 4.25 litres of water
Layer thickness:	up to max. 25 mm
Consumption:	approx. 1.8 kg/m ² /mm layer thickness
Storage:	12 months, cool and dry, in unopened container
EMICODE:	EC 1PLUS R: Very low emissions
GISCODE:	CP3 levelling compounds based on calcium sulphate, strongly alkaline

Properties

- > Thin-layer system
- > Fast response time
- > Ready for waterproofing with BLANKE DISK after just 12 hours
- > Waterproofing and decoupling in one single step
- > Coordinated system components for heating and cooling applications

Product Description

BLANKE PERMATOP SF SPA consists of a self-adhesive fiberglass mesh mat, a high-quality PE heating pipe (10 mm or 14 mm) with hook-and-loop technology, and the self-levelling calcium sulphate energy distribution layer BLANKE FILLOCREED. The system is perfected by BLANKE DISK, which is used within the PERMATOP SF SPA system as both decoupling and waterproofing in one function, as well as the self-adhesive edge insulation strip BLANKE RDS 5/50. The system heights are:
SF SPA (10 mm SF-KLETT-TEC) incl. DISK waterproofing: 15 mm
SF SPA (14 mm SF-KLETT-TEC) incl. DISK waterproofing: 19 mm
BLANKE SF SPA is suitable for creating a standard-compliant waterproofing system for wet rooms in accordance with DIN 18534, as well as for heating and cooling rooms where only low installation heights are available.

Substrates / Areas of Application

BLANKE PERMATOP SF SPA can be used on load-bearing substrates that are suitable for receiving tiled coverings. These include in particular old screeds, existing tile coverings, as well as firmly screwed OSB panels and dry screeds, beneath which on-site insulation should be present.

Installation

Substrates must be primed with Blanke GROUND according to their type. The self-adhesive fiberglass mesh mat BLANKE SF BASE is laid out over the entire surface and pressed firmly onto the substrate. The heating pipes are installed in a spiral pattern on the specified grid of the fiberglass mesh mat. Due to the hook-and-loop technology, no additional fixing is required. The heating pipes are then embedded in BLANKE FILLOCREED. A minimum pipe cover of 3 mm is required. After just 12 hours (drying time of BLANKE FILLOCREED), the self-adhesive waterproofing membrane BLANKE DISK can be applied to create a tested and standard-compliant waterproofing system. Immediately afterwards, the tile covering is bonded using the thin-bed method.

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