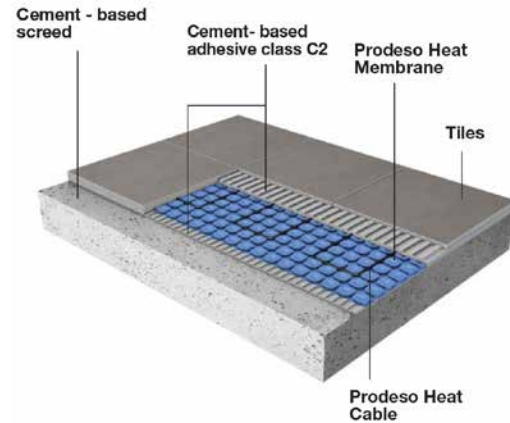


PRODESO HEAT MEMBRANE



DESCRIPTION

PRODESO HEAT MEMBRANE is a polypropylene membrane, with rounded square shaped reliefs that form channels specially designed to embed and hold the electric heating cables. On the underside of the membrane is a non woven thermo welded polypropylene sheet, to ensure the membrane bonds to the support. The truncated almost square based pyramid cavities situated in the middle of each relief transfers loads that are over the tiles directly to the support.

PRODESO HEAT MEMBRANE is an uncoupling and waterproofing membrane, with a 5,5 mm. thickness that does not require expansion joints in the screed before laying ceramic and natural stone tiles.

PRODESO HEAT MEMBRANE ensures laying of any flooring and waterproofing also in the case of cracked, not perfectly cured substrates and therefore with possible vapor pressure and overlapping.

PRODUCT PLUS AND FUNCTIONS

Uncoupling

PRODESO HEAT MEMBRANE neutralizes the differential movement that arise between support and flooring preventing breakage; therefore it is possible to lay tiles also on problematic supports such as wood and cracked substrates.

Waterproofing

PRODESO HEAT MEMBRANE, when used with **PROBAND 150**, a waterproofing

polyethylene tape covered on both sides with a non-woven sheets in polypropylene and **PROBAND KOLL**, a mono component sealant with low emissions of volatile organic compounds, guarantees waterproofing of indoor environments that may come in contact with water such as bathrooms, saunas and kitchens.

Vapour management

The cavities that are created below the rounded square reliefs of **PRODESO HEAT MEMBRANE** ensures vapour management generated by water evaporation of the substrate. For this reason it is possible to install **PRODESO HEAT MEMBRANE** even on substrates not perfectly cured or able to absorb moisture such as wood.

Load distribution

Thanks to the truncated almost square based pyramid cavities situated in the middle of each relief, **PRODESO HEAT MEMBRANE** transfers loads that are over the tiles directly to the support. For this reason, it is possible to install **PRODESO HEAT MEMBRANE** also on supports where concentrated floor loads are present.

AREAS OF USE

Use

Uncoupling and waterproofing membrane for support able to absorb moisture such as wood and anydrite based screed before laying ceramic and natural stone. It can be laid over cement based screed also cracked and not perfectly cured, sound ceramic and

natural stone floorings, not perfectly cured concrete, wood substrates and floor heating system.

Very resistant to saline solutions, acids and alkalis, alcohol and oils. In case of particular products, contact our technical department.

Do not use

On bituminous coverings, to waterproof outdoor surfaces, on highly flammable material as expected by building norms and on lightweight screeds.

WARNINGS

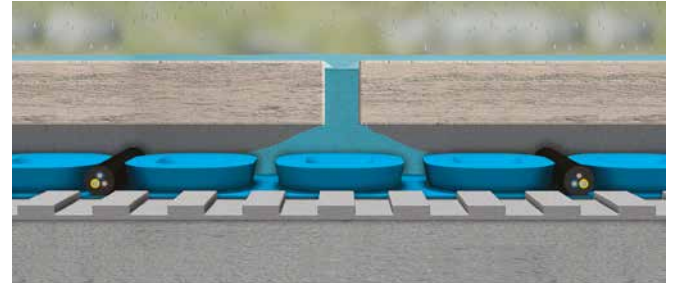
For a correct product application, observe indications in the installation manual and the documentation included in the package.

LAYING INSTRUCTIONS

The substrate must be ready to bear weight, solid, level and free from all substances like oil and grease that could compromise the adhesion of **PRODESO HEAT MEMBRANE**.

1. Cut **PRODESO HEAT MEMBRANE** to the desired length and apply the adhesive on the substrate using a suitable notched trowel. Use an adhesive suitable for the support.
2. Lay the roll, previously cut, over the wet adhesive.
3. Press the membrane evenly with a plaster trowel float, taking care to check the coverage of **PRODESO HEAT MEMBRANE**; in case of partial coverage, increase the amount of adhesive.
4. Lay the next sheet of **PRODESO HEAT**

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MEMBRANE taking care to align it with the previous one, without overlapping. Align the square reliefs.

To protect the membrane against damage or detachment from the support, it is recommended to use walking boards.



Warning: PRODESO HEAT MEMBRANE is not a waterproofing membrane; to get a proper waterproofing for indoor environments, after laying the heating cable and its test, you have to do the following:

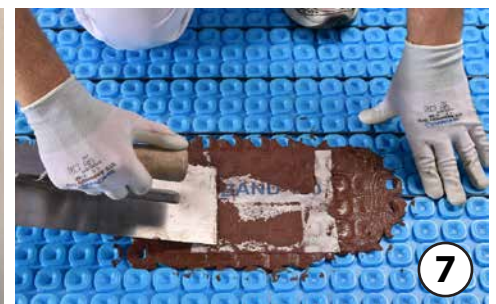
5. Apply **PROBAND KOLL** a waterproof sealant along the joints between two adjacent sheets with the flat side of the trowel, to a width of about 20 cm., taking care to fill the cavities of the membrane, leaving a thin layer of adhesive on top of the reliefs.

6. Fix **PROBAND 150** to **PROBAND KOLL** following the joint. Apply strong pressure and smooth to **PROBAND 150** to ensure sealing, avoiding the formation of folds.

7. Apply **PROBAND KOLL** a waterproof sealant to the floor, with the flat side of the trowel, to a width of about 10 cm, taking care to fill the cavities of the membrane and leaving a thin layer of adhesive on top of the reliefs. Apply the adhesive to the wall with a 4 x 4 mm notched trowel.

8. Fix **PROBAND 150** to **PROBAND KOLL** following the joint. Apply strong pressure and smooth to **PROBAND 150** to ensure sealing, avoiding the formation of folds.

Warning: In the case of non cement based walls, use **PROBAND FIX** to fix **PROBAND 150**



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9. Tiles can be immediately laid after the installation of the heating cables. Use the flat side of the trowel to fill with class C2 adhesive, the cavities of the membrane and apply the same adhesive, with a notched trowel in according with the tile size.

10. Carefully lay the tiles and press them on the layer of adhesive. If a thin layer of skin has formed, remove it and apply it again.

Occasionally remove and check some tiles, to ensure full back coverage.

Warnings: about positioning the expansion joints, please read the instruction manual in the thermostat kit box.



TEXT TEMPLATE FOR TENDERS

Delivery and installation of uncoupling and waterproofing polypropylene membrane with rounded square shaped reliefs that form channels specially designed to embed and hold the electric heating cables. On the underside of the membrane is a non woven thermo welded polypropylene sheet, to ensure the membrane bonds to the support. The truncated almost square based pyramid cavities situated in the middle of each relief transfers loads that are over the tiles directly to the support like PRODESO HEAT MEMBRANE of the Progress Profiles company.

PDES : Polypropylene membrane with non-woven thermo-welded polypropylene sheet.

Roll length : _____ mt
 Roll height : _____ mt
 Material : _____ €/mt
 Application : _____ €/mt
 Total value : _____ €/mt

TECHNICAL DATA

Appearance	Polimeric membrane	
Colour	White / Cyan blue	
Shelf life	24 Months in dry environment avoiding direct sunlight and heat sources	
Total thickness	≈ 5,5 mm	EN 1849 - 2
Width	≈ 1 m	
Weight of non-woven PP	≈ 50 g / m ²	EN 1849 - 2
Weight of PP sheet	≈ 750 g / m ²	EN 1849 - 2
Rounded square shaped reliefs number	≈ 1024 m ²	

PERFORMANCE HIGT - TECH

Compressive strength	≈ KN / m ² (t / m ²)	
Longitudinal breaking load	≈ N / 50 mm	EN 12311-1
Transversal breaking load	≈ N / 50 mm	EN 12311-1
Longitudinal ultimate elongation	≈ %	EN 12311-1
Transversal ultimate elongation	≈ %	EN 12311-1
Crack - Bridgin Ability (sistema incollato)	≥ 1 mm	
Air volume for vapor management	≈ lt / m ²	
Working temperature range	- 40° C / +80° C	