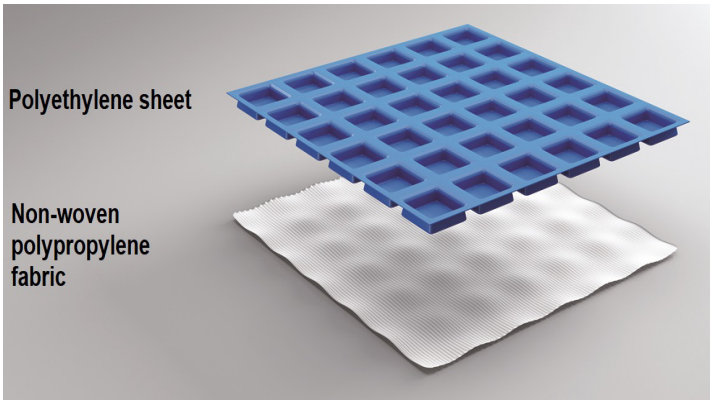
Rev. 1 - May 2019

PRODESO ECO



DESCRIPTION

PRODESO ECO is an uncoupling and waterproofing membrane for problematic supports and horizontal surface of any size that does not require expansion joints in the screed before laying ceramic and natural stone tiles.

PRODESO ECO ensures the laying of every flooring also in case of cracked and not perfectly cured substrates and therefore with possible vapor pressure and in case of old tiles.

PRODESO ECO is a membrane in high density polyethylene provided with a grid structure of square cavities, each cut back in a dovetail configuration. On the back side it is provided with a non-woven thermo-welded polypropylene fabric that guarantees the adhesion with the adhesive.

FUNCTIONS

A - Uncoupling

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

B - Equalisation of vapour pressure

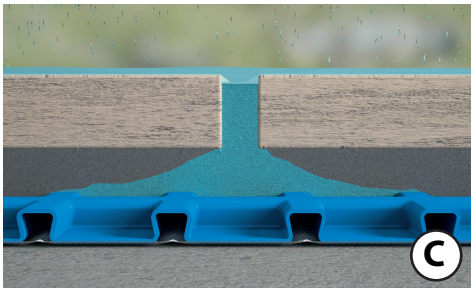
The **PRODESO ECO** interconnected channels guarantee the flow of the vapor pressure generated by the evaporation of the residual water into the substrate. For this it is possible to install **PRODESO ECO** even on substrates not perfectly cured.

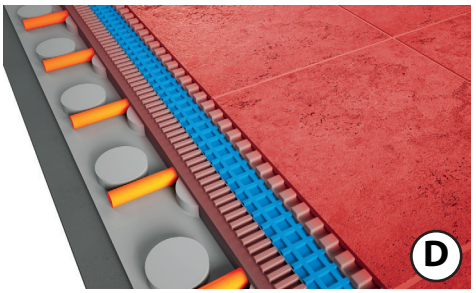
C - Waterproofing

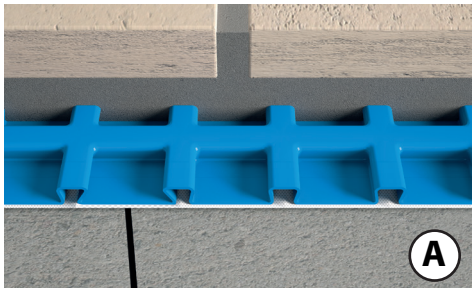
PRODESO, used with **PROBAND 150**, waterproofing polyethylene tape covered on both sides with a non-woven fabric in polypropylene and **PROBAND KOLL AB** guarantees the waterproofing of terraces, balconies and indoor environments that may come in contact with water such as bathrooms, saunas and kitchens.

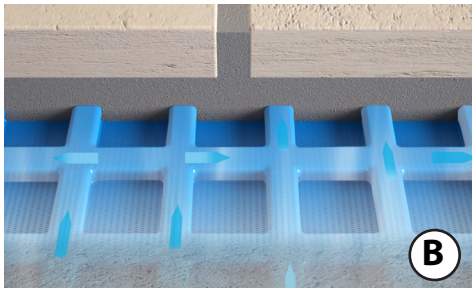
D - Heat distribution

The **PRODESO ECO** interconnected channels guarantee, in case of floor heating, especially when the screed has a low thickness, a more uniform heat distribution.









AREAS OF USE

Use

Uncoupling and waterproofing membrane for cracked and not perfectly cured screed. It can be laid over cement based screed, old ceramic and natural stone floorings, not perfectly cured screed and wood substrates.
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 walkable surfaces and on lightweight screeds not suitable for tiling. Do not use adhesives containing solvents for the membrane laying.

PRODESO ECO

WARNINGS

Once installed, the membrane must be protected against heavy mechanical loads to avoid damage. It is advisable to place running boards to protect the membrane. For information not explained in the technical details, please contact our technical department.
For furher information contact our technical department.

LAYING INSTRUCTIONS

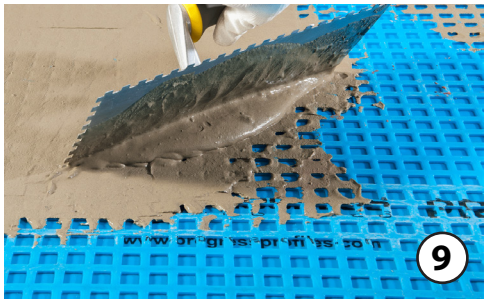
1. Cut **PRODESO ECO** to the desired length and with a notched trowel 7 x 5 apply **PROMEMBRANE KOLL** on the screed.
2. Apply **PRODESO ECO** on the wet adhesive.
3. Using a plastic trowel or a roller, press the membrane. Check the back wetting of **PRODESO ECO**. In case of non-complete wetting, increase the quantity of adhesive.
4. Lay the next sheet of **PRODESO ECO** taking care to align it with the previous one, without overlapping.
5. Apply **PROBAND KOLL AB** along the joint between two adjacent sheets of **PRODESO ECO** using the flat side of the notched trowel, for a width of about 20 cm. Take care to fill the cavities of the membrane and to leave a thin layer of adhesive on top of the reliefs.
6. Place **PROBAND 150** on **PROBAND KOLL AB** following the joint. Apply strong pressure and smooth **PROBAND 150** to ensure the adhesion, preventing creases.
7. Apply **PROBAND KOLL AB** using the flat side of the notched trowel, for a width of about 10 cm. Take care to fill the cavities of the membrane and to leave a thin layer of adhesive on top of the reliefs. Apply the adhesive on the wall for a height of about 10 cm.
8. Place **PROBAND 150** on **PROBAND KOLL AB** following the joint. Apply strong pressure and smooth **PROBAND 150** to ensure the adhesion, preventing creases.

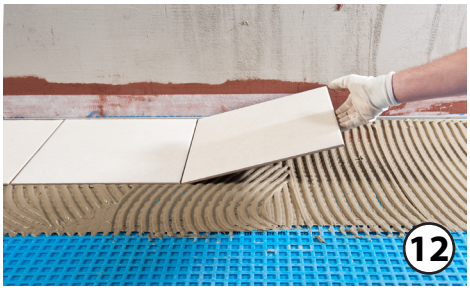
After **PRODESO ECO** installation, the flooring could be installed immediately.

10. Apply a C2TE adhesive on the membrane with a flat trowel taking care to fill the square cavities.
10. Place an expansion joint along the perimeter; the **PROFLEX 5 PR** is recommended.
11. Using a notched trowel according with the size of the tiles, apply a C2TE adhesive on the membrane and lay the flooring.
12. Install the flooring

Provide expansion joints in the flooring according with the rules in force.

PRODESO ECO





TEXT TEMPLATE FOR TENDERS

Delivery and installation of uncoupling and waterproofing membrane in high density polyethylene. On the back side it is provided with a non-woven thermo-welded polypropylene fabric that guarantees its adhesion with the adhesive, like PRODESO ECO of the Progress Profiles company.

PDESEC 3530/EN: Uncoupling and waterproofing membrane in polyethylene with a non-woven polypropylene fabric on the back

Roll length : _____ mt
Roll heigth : _____ mt
Material : _____ €/mt
Application : _____ €/mt
Totale value : _____ €/mt

TECHNICAL DATA

Appearance	Polymeric membrane	
Colour	White / Cyan blue	
Shelf life	24 Months in dry environment avoiding direct sunlight and heat sources	
Total thickness	≈ 3,5 mm	EN 1849 - 2
Width	≈ 1 m	
Weight of PP sheet	≈ 70 g / m^2	EN 1849 - 2
Weight of LDPE sheet	≈ 500 g / m^2	EN 1849 - 2
Number of square cavities	≈ 2500 m^2	

PERFORMANCE HIGT – TECH

Longitudinal breaking load	≈ 490N / 50 mm	EN 12311-1
Transversal breaking load	≈ 370 N / 50 mm	EN 12311-1
Longitudinal ultimate elongation	≈ 60 %	EN 12311-1
Transversal ultimate elongation	≈ 64 %	EN 12311-1
Channel volume	≈ 1,25 lt / m^2	
Crack – Bridgin Ability	≥ 1 mm	
Vapour permeability of PP fabric		
Vapour permeability of HDPE sheet		
Thermal resistance	0,030 m^2 K°/ W	UNI EN 12664
Working temperature	- 40° C / +80° C	