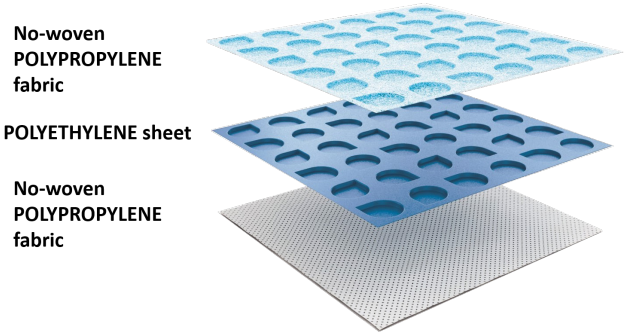
PRODESO



DESCRIPTION

PRODESO is a low-density polyethylene membrane, 3,5 mm high, provided with pyramidal round base cavities. On the back it has a non-woven thermo-welded polypropylene fabric that guarantees its adhesion to the support. On top the membrane has a non-woven thermo-welded polypropylene fabric that adheres to its surface and guarantees the tile adhesion.

PRODESO is a waterproofing and uncoupling membrane that guarantees vapour management and heat distribution. Using **PRODESO** it is possible to go over the expansion joints in the screed before the installation of ceramic tiles and natural stones.

PRODESO ensures the flooring installation and waterproofing even on cracked and not perfectly cured substrates and in overlapping on old flooring.

FUNCTIONS

A- Uncoupling

PRODESO neutralizes the differential movement that arise between the support and the flooring preventing breakage, making it possible to install tiles on problematic supports such as wood and cracked substrates. Using **PRODESO**, where movement joints are present in the subfloor, the membrane should be continuous across these junctions.

B) Waterproofing

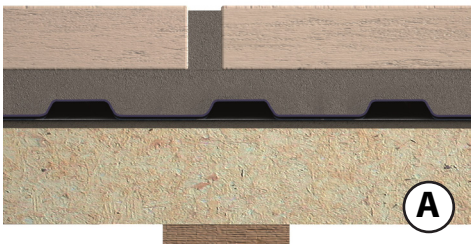
PRODESO, used with **PROBAND 150**, waterproofing polyethylene tape covered on both sides with a non-woven fabric in poly- propylene and **PROBAND KOLL / PROBAND KOLL AB**, guarantees the waterproofing of terraces, balconies and indoor environments that may come in contact with water such as bathrooms,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

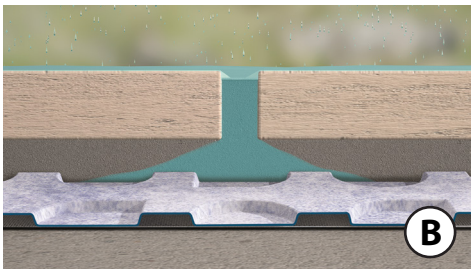
C) Vapour management

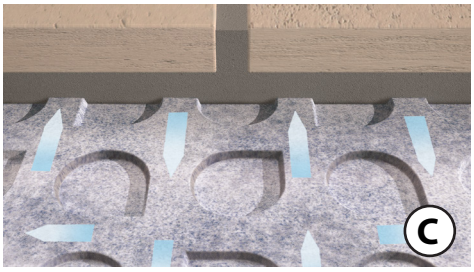
The **PRODESO** interconnected channels guarantee the flow of the vapor pressure generated by the evaporation of the residual water into the substrate. Therefore it is possible to lay PRODESO even on substrates not perfectly cured.

D) Heat distibution

The **PRODESO** interconnected channels guarantee in case of floor heating a more uniform heat distribution.





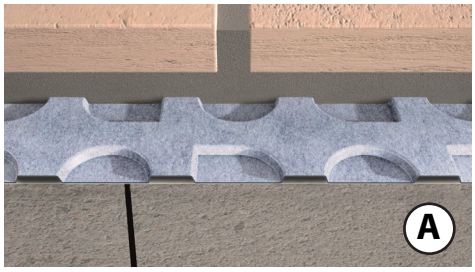


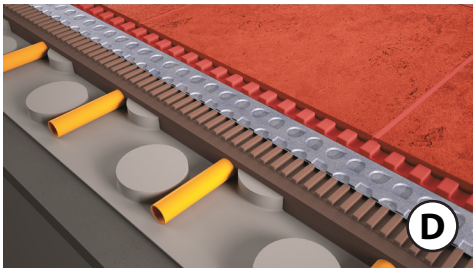
AREAS OF USE

Use

Uncoupling and waterproofing membrane for cracked and not cured substates as:

- Wooden flooring
- Anhydrite and cementitious screed
- Cracked and not cured substrates
- Old ceramic and natural stones
- Non perfectly cured concrete
- Wooden structures
- Floor heating systems.





PRODESO

Very resistant to saline solutions, acids and alkalis, alcohol and oils. In case of particular products, contact our technical department.
Note: For further information on other backgrounds and preparation, contact Progress Profiles technical advisory and specification service.

Do not use

On bituminous coverings and on lightweight screeds not suitable for tiling. Do not use adhesives containing solvents for the membrane and flooring installation. Do not use on substrates with water rising.

WARNINGS

During the summertime **PRODESO** must be unrolled under the sun before the installation. For the **PRODESO** application use a C2TES1 adhesive mixed with the maximum quantity of water declared on the bag. Apply the tiles immediately after the membrane installation to avoid exposure to sunlight. 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.
Tiles installed over **PRODESO** in floor areas should have a minimum size of 5 x 5 cm and a thickness of at least 5.5 mm. The tiles for the corresponding application area must be sufficiently thick and have adequate compressive stability to withstand high traffic loads (e.g. in commercial areas) or large point loads (such as concert pianos, forklifts, or shelf systems). Stepping on coverings installed over **PRODESO** with hard shoes or tapping them with a hard object may produce a hollow sound.
For information not explained in the technical details, please contact Progress Profiles technical advisory and specification service.

INSTALLATION INSTRUCTIONS

Always check the substrates on which **PRODESO** is to be installed to make sure they are level, rigid, load bearing, clean and compatible with the materials to be used. Remove all surface components that may weaken the bond. Any levelling, height adjustment or slope compensation must be carried out before installing **PRODESO**.

Gypsum based screed

According to the applicable rules, gypsum based (anhydrite) screed may not have a residual moisture level of more than 0.5 % at the time of tile installation. In contrast, tile installation is permissible from a residual moisture level of 2 % using **PRODESO**. If necessary, the screed surface must be treated (grinding, priming) as specified by the applicable technical regulations and manufacturer instructions. Because gypsum-based screeds are susceptible to moisture, the screed must be protected against humidity, e.g. moisture seepage on the underside.

Balconies / terraces

If previous coverings are sufficiently weight bearing and have the necessary slope, the existing assembly may be used as the substrate in renovation projects. Otherwise, loose or insufficiently bonded parts must be removed prior to installing **PRODESO** and any flaws or inadequate slope must be corrected with a suitable ready-mix mortar.

1. Cut **PRODESO** to the desired length and using a 6 X 6 mm. notched trowel apply a C2TES1 adhesive on the support.
2. Apply **PRODESO** into the wet adhesive and press the membrane using a a roller loaded at least with 15 kg.
3. Checking for full back coverage of **PRODESO**; if full coverage isn't achieved, check the adhesive mix ratio and trowel size is correct.

PRODESO

4. Install the next roll of **PRODESO** making sure it is aligned with the previous one, without overlapping.
5. Apply **PROBAND KOLL / AB** along the joint between two adjacent sheets of **PRODESO** with the flat side of the notched trowel, for a width of about 20 cm. fill the cavities of the membrane and leave a thin layer of adhesive on top of the channels.
6. Place **PROBAND 150** on **PROBAND KOLL / AB** following the joint. Applying pressure and smooth **PROBAND 150** to ensure the adhesion, preventing creases.
7. Apply **PROBAND KOLL / AB** on the membrane using the flat side of the notched trowel, for a width of about 10 cm. Fill the cavities of the membrane and leave a thin layer of adhesive on top of the channels. Apply the adhesive on wall to a height of about 10 cm.
8. Place **PROBAND 150** on **PROBAND KOLL / AB** following the joint. Applying pressure and smooth **PROBAND 150** to ensure the adhesion, preventing creases.

Warning: Protect the membrane from meteoric precipitation for at least 6 hours. If it rains it is necessary to remove the water from the circular cavity before applying the flooring. If the bituminous wall membrane has been used, apply the adhesive band **PROBAND BU** before the **PROBAND 150** installation. After **PRODESO** installation, the flooring could be installed immediately.

9. Apply a C2 adhesive on the membrane using the flat side of the notched trowel taking filling the cavtiies.

10. Apply the same adhesive on the membrane with a notched trowel suitable for the tiles size and install the flooring placing expansion joints according with the rules.

Warning: Protect the membrane from rain for at least 6 hours after installation. In case of a bituminous wall sheath, apply the **PROBAND BU** adhesive band before **PROBAND 150** installation.

TEXT TEMPLATE FOR TENDERS

Delivery and installation of low-density polyethylene membrane with pyramidal cavities and round bases. On the back side it has a no-woven thermo-welded polypropylene fabric that guarantees the adhesion with the adhesive. On top the membrane has a non-woven thermo-welded polypropylene fabric that adheres to its surface and guarantees the tile adhesion with adhesive, like PRODESO of the Progress Profiles company.

PDES : Polyethylene membrane provided on both sides with a non-woven thermo-welded polypropylene fabric.

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

PRODESO

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	≈ 160 g / m^2	EN 1849 - 2
Weight of LDPE sheet	≈ 370 g / m^2	EN 1849 – 2
Cavities number	≈ 2500 m^2	

PERFORMANCE HIGT – TECH

Compression resistance	350 KN / m^2 (35 ton m^2)	
Tensile strength (MD)	8 kN/m	EN ISO 10319:2008-10
Tensile strength (CD)	8,5 kN/m	EN ISO 10319:2008-10
Strain at maximum load	22 % (MD)	EN ISO 10319:2008-10
	42 % (CMD)	EN ISO 10319:2008-10
Strain at maximum load	25 % (MD)	ISO 13859-1-2014-07
	43 % (CMD)	ISO 13859-1-2014-07
Channel volume	≈ 1,02 lt / m^2	
Crack - Bridging Ability	≥ 1,8 mm	
Thermal resistance	0,035 m^2 K°/ W	UNI EN 12664
Working temperature	- 40° C / +80° C	