



PROFOIL MEMBRANE SYSTEM APPLICATION MANUAL



MATERIAL

PROFOIL is a waterproofing membrane with a thickness of 415 µm. The membrane is composed by a low density polyethylene sheet provided on both sides with non-woven thermo-welded polypropylene fabric that guarantees its adhesion.

PROFOIL guarantees the waterproofing in environments in direct contact with water such as swimming pools, bathrooms and kitchens, and with high vapor tension such as saunas and wellness centers.

PROBAND FIX is a moisture-cure sealant that has high adhesion and elasticity. It guarantees, with **PROBAND 150 / 250**, the waterproofing between two adjacent sheets of **PROFOIL** and the connection between floor and wall. **PROBAND FIX**, available in white and grey colour, has not unstable components and ensures a high adhesion of **PROBAND 150 / 250**.

PROBAND 150 / 250 is an elastic waterproof tape in polyethylene provided on both sides with polypropylene non-woven fabric that guarantees its adhesion. The tape guarantees the waterproofing along the connection between floor and wall and between adjacent sheets of **PROFOIL**.

AREAS OF USE

Use

Waterproofing membrane for substrates and vertical structures before laying ceramic tiles and natural stone. Very resistant to saline solutions, acids and alkalis, alcohol and oils. It guarantees the waterproofing of screeds,

swimming pools bathrooms, saunas and kitchens.

Do not use

On bituminous coverings, to waterproof walkable surfaces, on insulating panels and lightweight screeds not suitable for the laying of flooring. As uncoupling and vapour management membrane.

WARNINGS

For the laying of the **PROFOIL** membrane, mix a C2TE adhesive with a quantity of water greater than the amount written on the bag to guarantee the full back coverage of the membrane (watch the installation video <https://www.youtube.com/watch?v=DJ5K-NukhpDU>). After membrane laying it is possible to apply the tiles immediately. In case of outdoor application protect **PROFOIL** 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. Do not use it on substrates subject to continuous rising moisture. For information not explained in the technical details, contact our technical department.

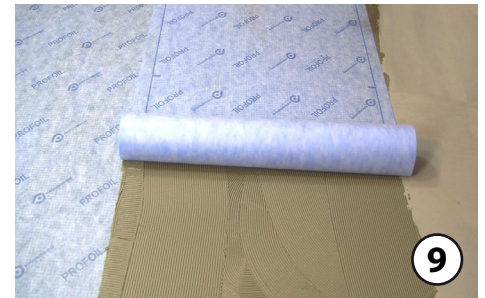
LAYING INSTRUCTIONS PREPARATION OF THE SUPPORT

1. Clean the support from dust, oil, grease, friable or weakly anchored parts, cement residuals, lime, plaster or paintings.
2. Verify the screed flatness and in case of waterproofing the presence of adequate slopes, suitable for the discharge of rain waters.
3. Verify the solidity of the screed with a hammer.
4. Verify the resistance to the abrasion of the screed with a chisel. Repair possible cracks in the screed bigger than 1 mm with an epoxy double-component ultra-rapid resin. In case of overlapping, verify anchoring and the cleanliness of the old floors.





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WATERPROOFING IN CASE OF NON PRESSURE OF WATER Floor application

5. Cut **PROFOIL** to the desired length and with a 3 x 3 mm notched trowel apply a C2TE adhesive on floor. Mix a C2TE adhesive with a quantity of water greater than the amount written on the bag in order to obtain a mixture suitable for the membrane application (watch the installation video <https://www.youtube.com/watch?v=7UoZZoFzuJg>); use a suitable adhesive according to the support.

6. Apply **PROFOIL** on the wet adhesive; press firmly with the flat side of the trowel and smooth the sheet to ensure the adhesion avoiding the formation of folds.

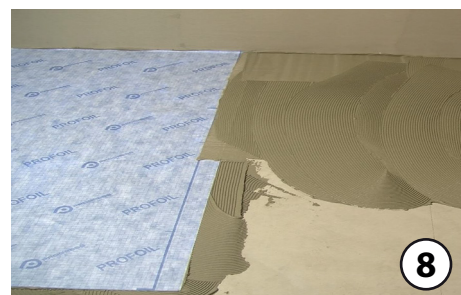
7. Check the back wetting of **PROFOIL**. In case of non complete wetting, increase the quantity of adhesive (watch the installation video <https://www.youtube.com/watch?v=3f4Y7C-gumOE> at 44 seconds).

Overlapping between adjacent sheets

8. With a 3 x 3 mm notched trowel apply a C2TE adhesive on floor and on the first sheet for a width no less than 5 cm.

9. Apply the next sheet of **PROFOIL** over the wet adhesive taking care to overlap it to the previous one.

10. Press firmly with the flat side of the trowel and smooth the sheet to ensure the adhesion avoiding the formation of folds.



Internal corner

11. Cut a piece of **PROBAND 150 / 250**, 40 centimeters long, and make a cross cut in the center to half height.

12. Fold the strip in order to obtain an internal corner with overlapping bases.

13. Apply a C2TE adhesive with a 3 x 3 mm notched trowel for a width of about 10 cm on the membrane. Apply the adhesive on the wall with a 3 x 3 mm notched trowel for a height of about 10 cm.

14. Lay the previously formed corner on the fresh adhesive taking care to glue also the overlapped bases. Press firmly with the flat side of the trowel and smooth the sheet to ensure the adhesion avoiding the formation of folds.





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Floor – wall connection

19. Apply a C2TE adhesive on the membrane with a 3 x 3 mm notched trowel, for a width of about 10 cm. Apply the adhesive on the wall with a 3 x 3 mm notched trowel for a height of about 10 cm.

20. Place **PROBAND 150 / 250** on the fresh adhesive following the joint. Press firmly with the flat side of the trowel and smooth the sheet to ensure the adhesion avoiding the formation of folds.



External corner

15. Cut a piece of **PROBAND 150 / 250**, 40 centimeters long, and make a cross cut in the center to half height. Fold the strip in order to obtain an external corner.

16. Cut a piece of **PROBAND 150 / 250** with a length equal to its height and then cut out a square equal to half of that.

17. Apply a C2TE adhesive with a 3 x 3 mm notched trowel for a width of about 10 cm on the membrane. Apply the adhesive on the wall with a 3 x 3 mm notched trowel for a height of about 10 cm.

18. Lay the previously formed corner on the fresh adhesive; press firmly and smooth the tape to ensure the adhesion avoiding the formation of folds. Apply the second piece with adhesive over the formed corner. Press firmly with the flat side of the trowel and smooth the sheet to ensure the adhesion avoiding the formation of folds.





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Wall application

21. Cut **PROFOIL** to the desired length and with a 3 x 3 mm notched trowel apply a C2TE adhesive on wall. Mix a C2TE adhesive with a quantity of water greater than the amount written on the bag in order to obtain a mixture suitable for the membrane application (watch the video <https://www.youtube.com/watch?v=DJ5KNukhpdU>); use a suitable adhesive according to the support.

22. Apply **PROFOIL** over the wet adhesive and press the membrane using the flat side of the notched trowel.

23. Check the back wetting of **PROFOIL**. In case of non complete wetting, increase the quantity of adhesive (watch the installation video <https://www.youtube.com/watch?v=3f4Y7CgumOE> at 44 seconds).



Wall-wall connection

24. Apply a C2TE adhesive on the membrane with a 3 x 3 mm notched trowel, for a width of about 10 cm along the wall-wall connection.

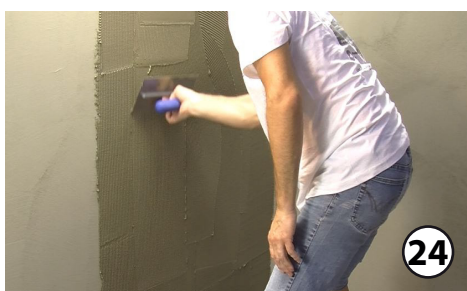
25. Place **PROBAND 150 / 250** on the fresh adhesive following the joint.

26. Press firmly with the flat side of the trowel and smooth the tape to ensure the adhesion, avoiding the formation of folds.

Flooring laying

27. Apply a C2TE adhesive on the membrane with a notched trowel suitable with the size of the tiles. Place along the perimeter **PROFLEX 5 PR** or **ACC**.

28. Lay the tiles using **PROLEVELING SYSTEM**. Place the joint according with the vigent rules. When the adhesive is hard grout the flooring.





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WATERPROOFING IN CASE OF PRESSURE OF WATER

29. Apply **PROBAND FIX** along the joint between two adjacent sheets of **PROFOIL**, with a little serrated trowel, for a width of about 13 cm. Do the same along the floor – wall connection.
30. Place **PROBAND 150 / 250** on **PROBAND FIX** following the joints.
31. Press firmly with the flat side of the trowel and smooth the tape to ensure the adhesion, avoiding the formation of folds.

Warning: In case of outdoor application protect the membrane from meteoric precipitation for the first 48 hours after installation.





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TECHNICAL DATA

Appearance	Polymeric composed sheet	
Color	Cyan	
Shelf life	24 months in a dry and cool place, avoiding exposure to direct sunlight and to heat sources	
Total thickness	≈ 415 μm	EN 1849 - 2
Width	≈ 1 m	
Weight of PP sheet	≈ 70 g / m ²	EN 1849 - 2
Weight of PE Sheet	≈ 140 g / m ²	EN 1849 - 2
Total weight	≈ 210 g / m ²	EN 1849 - 2

PERFORMANCE HIGH – TECH

Longitudinal breaking load	≈ 300 N / 50 mm	EN 12311-1
Transversal breaking load	≈ 190 N / 50 mm	EN 12311-1
Ultimate elongation	≈ 50 %	EN 12311-1
Crack – Bridgin Ability	≥ 1 mm	
Vapor permeability of the PP sheet	> 50 m	
Working temperature	- 40° C / +80° C	

CLASSIFICATION IN ACCORDANCE WITH AS/NZS 4200.2 PLIABLE BUILDING MEMBRANES AND UNDERLAYS

Resistance to dry delamination	Pass		AS/NZS 4200 1.1
Resistance to wet delamination	Pass		AS/NZS 4200 1.2
Tensile strenght MD	Extra light duty	≈ 6 KN/m	AS/NZS 4200 1.1 - 1994
Tensile strenght LD	Extra light duty	≈ 3,8 KN/m	AS/NZS 4200 1.1 - 1994
Edge tear resistance MD	Extra light duty	≈ 183 N	AS/NZS 4200 1.1 - 1994
Edge tear resistance LD	Extra light duty	≈ 286 N	AS/NZS 4200 1.1 - 1994
Bursting strenght	Extra light duty	≈ 387 N	AS/NZS 4200 1.2.19
Surface water adsorbency	Hight	≈ 189,45 g / m ²	AS/NZS 4200 1.6 - 1994
Resistance to water penetration	Hight		AS/NZS 4200 1.4 - 1994
Folding endurance for insulation materials MD	Hight	> 2,6	AS/NZS 130.423 rp - 2008
Folding endurance for insulation materials CD	Hight	> 2,6	AS/NZS 130.423 rp - 2008
Method 3: Shrinkage	Pass	< 0,5 %	AS/NZS 4200 1.3
Water vapour trasmission, procedure B (wet cup)	Low	< 7 MN s/g	AS/NZS by the meth ASTM E96



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Progress-Profiles Profoil 10-Year Limited Warranty

COVERAGE AND CONDITIONS: Subject to the conditions and limitations as stated hereinafter, Progress Profiles* warrants that Progress Profiles - Profoil (The Product)** - will be free from manufacturing defects, and will not rot, deteriorate or break down under normal use for a period of ten (10) years from the date of purchase only when the Product is used and installed in accordance with the terms and conditions of the Progress Profiles Technical Data Sheet and industry standard guidelines that aren't in conflict with the Data Sheet in effect at the time of installation. Further, efflorescence is considered to be a natural occurrence with cementitious materials and is therefore not considered to be a defective condition and is not covered by this warranty. It is the responsibility of the owner/builder/installer to ensure the suitability of all building materials and all associated building materials for the owner's intended use. It is recommended that the owner consult an experienced and professional installer.

RESOLUTION: If the Products fail to meet this warranty, then the owner's exclusive remedy and the sole obligation of Progress Profiles, at its election, shall be to

- a) Reinstall or replace the failed portion of the tile assembly
- b) Pay an amount not to exceed the original square meter cost of the installation of the tile assembly verified to be defective.

Tile assembly is defined to include all Profoil materials, non-reusable tile surfaces, and the appropriate setting and grouting materials. Further, due to conditions beyond the control of Progress Profiles (e.g. color and shade availability, discontinuation, normal wear and tear), Progress Profiles cannot guarantee or warrant an exact match to the specific tile, stone, or other flooring materials used in the installation. In such events, substantially similar materials may be substituted.

DISCLAIMER: THERE ARE NO WARRANTIES BEYOND THIS EXPRESSED WARRANTY AS STATED ABOVE. ALL OTHER WARRANTIES, REPRESENTATIONS OR CONDITIONS, EXPRESSED OR IMPLIED, ARE DISCLAIMED AND EXCLUDED, INCLUDING WARRANTIES, REPRESENTATIONS OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARISING BY STATUTE OR OTHERWISE BY LAW OR FROM A COURSE OF DEALING OR USAGE OF TRADE. PROGRESS PROFILES EXCLUDES AND IN NO EVENT SHALL HAVE ANY LIABILITY FOR LOST PROFITS OR ANY OTHER INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, EXEMPLARY, OR CONSEQUENTIAL DAMAGES, ARISING OUT OF OR OTHERWISE CONNECTED TO FAILURE OF THE PRODUCTS OR TILE ASSEMBLY OF WHICH THEY ARE PART, NOR MISUSE OF THE PRODUCTS OR TILE ASSEMBLY, REGARDLESS OF ANY STRICT LIABILITY, ACTIVE OR PASSIVE NEGLIGENCE OF PROGRESS PROFILES, AND REGARDLESS OF THE LEGAL THEORY (CONTRACT OR TORT OR EXTRA CONTRACTUAL OR OTHER), NOR FROM ACTS OF WAR, TERRORISM, FAULTY AND NEGLIGENT PENETRATION OF THE SYSTEM, FIRES, EXPLOSIONS, ACTS OF GOD, INTENTIONAL ACTS OF DESTRUCTION OR ANY LOSSES DUE TO STRUCTURAL FAILURE OR OTHER CAUSES UNRELATED TO THE PRODUCTS OR DELAYS, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES. THIS WARRANTY IS GIVEN IN LIEU OF ANY OTHER WARRANTY EXPRESSED OR IMPLIED. THE REMEDIES CONTAINED HEREIN ARE THE ONLY REMEDIES AVAILABLE FOR BREACH THIS WARRANTY. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS; SOME STATES AND PROVINCES DO NOT ALLOW DISCLAIMERS OR OTHER RESTRICTIONS OF IMPLIED WARRANTIES SO SOME OF THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

TRANSFERABILITY: This limited warranty extends ONLY to the original end-user (defined as original intended owner and user of the property / unit in which the installation is incorporated - herein



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referred to as Owner) and is not transferable or assignable, unless approved in writing by the Technical Director or an Officer of Progress Profiles or otherwise prohibited by specific state or provincial law.

MODIFICATION TO WARRANTY: No changes or modification of any terms or conditions of this warranty are allowed unless authorized by written agreement and signed by the Technical Director or an Officer of Progress Profiles.

EFFECTIVE DATE: This warranty shall supersede and replace any and all prior oral or written warranties, agreements, or other such representations made by or on behalf of Progress Profiles relative to the Product or the application of the Product and shall apply to any installation occurring on or after January 1, 2013.

CLAIMS ON THIS LIMITED WARRANTY: To make a claim under this Limited Warranty, the Owner must provide Progress Profiles with written notice within 30 days of any alleged defect in the Product covered by this Limited Warranty, together with the date and proof of purchase of the Product, proof of the cost of the original installation and name and address of all installers, failing which this Limited Warranty shall be of no legal effect. Progress Profiles reserves the right at its election and as a condition of this Limited Warranty to inspect the alleged failed and defective condition.

All Claims shall be sent to:
Progress Profiles S.p.A.
Via le Marze, 7
31011 Asolo (TV) Italy

*For the purpose of this warranty Progress Profiles shall provide the warranty for the Product for end users located in the United States and in Canada. This warranty is limited to sales of the Product made in and intended for use in the United States and Canada

**Progress Profiles – Profoil - (the Product): The Product is defined the waterproofing membrane include in – Profiles and membrane for terraces and balconies - referred to general Progress Profiles catalogue in force.



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INSTALLATION CHECK LIST

1. Before laying watch the video <https://www.youtube.com/watch?v=7UoZZoFzuJg>
2. Verify if the support is clean from dust, oil, grease, friable or weakly anchored parts, cement residuals, lime, plaster or paintings.
3. Verify the screed flatness; in case of waterproofing the presence of adequate slopes are necessary for the discharge of rain waters.
4. Verify the solidity of the screed with a hammer.
5. Verify the resistance to the abrasion of the screed with a chisel.
6. Verify if cracks bigger than 1 mm are present. In this case repair them with an epoxy bi-component ultra-rapid resin.
7. In case of application over old tiles verify the anchoring and the cleanness of the tiles.
8. Verify the fluidity of the mixed adhesive for Profoil laying (see video)
9. During laying verify the full back coverage of Profoil
10. Protect Profoil to sunlight and against heavy mechanical loads to avoid damage after laying

Required material

- a. Profoil
- b. Profoil 150 / 250
- c. Proband FIX – only in case of pressure of water
- d. Notched trowel 3 x 3 for Profoil laying and for Proband 150 / 250
- e. Notched trowel in according with the tiles size
- f. Plastic trowel to press Prodeso
- g. Adhesive mixer
- h. Mixing paddle
- i. Buckets
- j. Cutter for Profoil and Proband 150 / 250