### THE PROGRESS PROFILES

WATERPROOF MEMBRANE SYSTEMS

# TECHNICAL MANUAL

VERSION 23.08.2019







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Waterproofing Membranes from Progress Profiles SpA, Italy: are the result of research, innovation and experience. Always ready to tackle new challenges, Progress Profiles has enjoyed over 32 years of global success during which a small family business has become a worldwide enterprise. Committed to the collaboration of young talented professionals in the areas of architecture and interior design allow PP to create new and exclusive solutions to combine performance with usability & efficiency.

Over 16,000 square metres of indoor space and the latest generation of manufacturing equipment dedicated to the production of innovative interior and exterior finishing solutions for residential and commercial applications.

Our products come in all types of materials and are regularly tested. Modern layouts and management methods ensure the systematic organisation of materials and products in our warehouse while advanced stock control software monitors orders to guarantee prompt and efficient customer service. We look forward to the incorporation of our products into your projects as a sign of selecting only the best in terms quality and performance.

Progress Profiles is proudly represented in New Zealand by 2UP LTD. 2UP have taken on the responsibility of training installers, specifiers and industry professionals nationwide. 2UP will be the first point of contact for any Progress Profiles related enquiries for NZ.

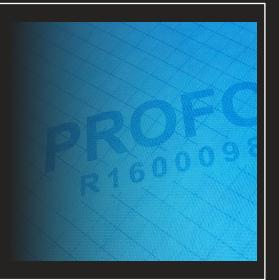
# 2. PRODUCT OVERVIEW

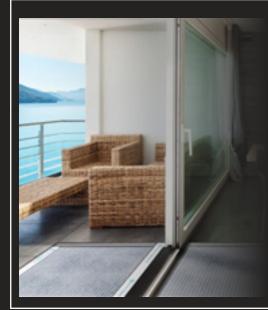
Progress Profiles (PP) Membranes are a family of waterproofing membranes capable of being used in conjunction with each other to allow for tile installations in high risk areas. The latest in under tile membrane technology means simplistic installs over a range of substrates, including the direct application to Ply or Strandboard flooring.

## 2.1 PROFOIL:

The go-to membrane for waterproofing applications.

The Profoil membrane is made up of 3 layers, the middle layer is a 100% continuous and impervious low-density polyethylene sheet which is sandwiched between two layers of a non-woven polypropylene fabric that guarantees adhesion to the appropriate adhesives. Profoil can be applied in all situations where direct contact with water is a factor under normal use, such as: bathrooms, balconies, kitchens, laundries and even submerged areas where a high performance solution is required such as: Swimming pools and saunas. At only 0.4mm thick, application is easy and joint build up is minimal.





# 2.2 PRODESO UNCOUPLING:

Waterproofing, Uncoupling, vapor management all in one! The Prodeso Uncoupling is a 3mm thick membrane designed to uncouple a tile installation from the substrate, minimising the stress an imperfect substrate will have on the finished tile installation. Carefully designed interconnected channels that allow the safe release of vapor pressure generated by residual water from a substrate. The Prodeso Uncoupling membrane can also allow tile installations over substrates that are not yet perfectly cured. Made up of three layers, the underside layer is a breathable Polypropylene sheet to allow vapor release. The middle layer is a 100% continuous and impervious low-density polyethylene sheet, topped with a non-woven polypropylene fabric that guarantees adhesion to adhesives and allowing almost immediate tile installation.

# 2.3 PRODESO HEAT:

Fast and Simplistic under tile heating solution: Waterproofing, Uncoupling, vapor management and heat cable encapsulation!

With all the benefits of the Uncoupling membrane Prodeso Heat also has specifically designed preformed slots to embed and fasten the Prodeso heat cable. Prodeso Heat is made up of two layers, the underside layer is a breathable Polypropylene sheet to allow vapor release. The top layer is a 100% continuous and impervious low-density polyethylene sheet, carefully designed with dovetail shaped reliefs to lock-in adhesives.



# 2.4 PRODESO SOUND:

# Designed as a waterproofing, uncoupling and soundproof membrane!

With all the benefits of waterpoofing & uncoupling already understood, this membrane adds acoustic comfort between floor levels by softening impact sound up to 17dB. Prodeso Sound is a membrane in high density polyethylene consisting of a polypropylenespunbond top layer and a non-woven fabric in polypropylene lower layer, both thermo-welded to the polyethylene sheet which guarantees a perfect bond with the adhesive.



# 2.5 PROFOIL PANELS:



# Are extruded polystyrene panels for floors, walls & ceilings.

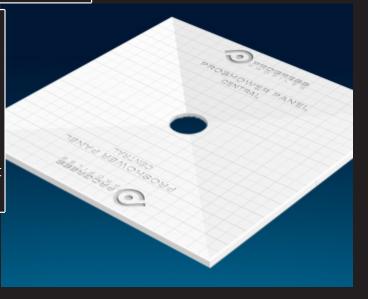
With a waterproof membrane boths sides of the panel allows uses such as waterproof wall linings, under tile heating insulation and even partition walls or joinery substrates all to be tiled over. Ceilings can be lined for tiling offering greater aesthetic choices.

After fixing panels to the substrate, tiles can immediately installed saving many days of prep time.

# **2.6 PROSHOWER PANELS:**

# Are a moulded polystyrene shower tray for central waste or strip drain options.

Trays can be cut down from 1220x1220 to any size. The 2% presloped angle allows perfect water runoff. Simply apply adhesive to the substrate and the back of the panel and set. The surface material is waterproof so only junctions to walls, hobs or floors need bandaging. A complimentary range of strip drains and central wastes are available as part of the system.



# 2.7 PROFOIL PASTE:

Ready to use, thin layer elastic membrane suitable to waterproof curved and recessed structures where the application of Profoil membrane may cause complications.

Profoil Paste is a very fine mixture in Cyan colour.



# 3. SCOPE OF USE

	APPLICATION			
	BATHROOM	BALCONY	<b>HEATED FLOOR</b>	SWIMMING POOL
CONCRETE	SUGGESTED MEMBRANE Profoil ADDITIONAL: Proband: Protrusions and floor & wall junctions Proband Fix: Fixing to PVC, Metal, Glass. eg. Waste connections ADHESIVE SYSTEM: Kerakoll Primer A and Kerakoll BioFlex S1	SUGGESTED MEMBRANE Prodeso Uncoupling ADDITIONAL: Proband: Protrusions and floor & wall junctions Proband Koll: To fix Proband 150/250 Proband Fix: Fixing to PVC, Metal, Glass. eg. Waste connections ADHESIVE SYSTEM: Kerakoll Primer A and Kerakoll BioFlex S1	SUGGESTED MEMBRANE Prodeso Heat ADDITIONAL: Proband & Proband Koll: Sheet joins protrusions and floor & wall junctions Proband Fix: Fixing to PVC, Metal, Glass. eg. Waste connections ADHESIVE SYSTEM: Kerakoll Primer A and Kerakoll BioFlex S1	SUGGESTED MEMBRANE Profoil ADDITIONAL: Proband & Proband fix: Sheet joins protrusions and floor & wall junctions Proband Fix: Fixing to PVC, Metal, Glass. eg. Waste connections ADHESIVE SYSTEM: Kerakoll Primer A and Kerakoll BioFlex S1
PLY/OSB	SUGGESTED MEMBRANE Profoil ADDITIONAL: Proband: Protrusions and floor & wall junctions Proband Fix: Fixing to PVC, Metal, Glass. eg. Waste connections ADHESIVE SYSTEM: Kerakoll Keragrip Eco and Kerakoll Biogel No Limits	SUGGESTED MEMBRANE Prodeso Uncoupling ADDITIONAL: Proband: Protrusions and floor & wall junctions Proband Koll: To fix Proband 150/250 Proband Fix: Fixing to PVC, Metal, Glass. eg. Waste connections ADHESIVE SYSTEM: Kerakoll Keragrip Eco & Kerakoll Biogel No Limits	SUGGESTED MEMBRANE Prodeso Heat ADDITIONAL: Proband & Proband Koll: Sheet joins protrusions and floor & wall junctions Proband Fix: Fixing to PVC, Metal, Glass. eg. Waste connections ADHESIVE SYSTEM: Kerakoll Keragrip Eco & Kerakoll Biogel No Limits	-
CEMENT BOARD	SUGGESTED MEMBRANE Profoil ADDITIONAL: Proband: Protrusions and floor & wall junctions Proband Fix: Fixing to PVC, Metal, Glass. eg. Waste connections ADHESIVE SYSTEM: Kerakoll Primer A and Kerakoll BioFlex S1	SUGGESTED MEMBRANE Profoil ADDITIONAL: Proband: Protrusions and floor & wall junctions Proband Fix: Fixing to PVC, Metal, Glass. eg. Waste connections ADHESIVE SYSTEM: Kerakoll Primer A and Kerakoll BioFlex S1	SUGGESTED MEMBRANE Prodeso Heat ADDITIONAL: Proband & Proband Koll: Sheet joins protrusions and floor & wall junctions Proband Fix: Fixing to PVC, Metal, Glass. eg. Waste connections ADHESIVE SYSTEM: Kerakoll Primer A and Kerakoll BioFlex S1	-

# 4. BUILDING CODE PERFORMANCE

The Progress Profiles Waterproof Membrane Systems (PPWMS) have been carefully tested and approved for use in New Zealand conditions by BEAL. The relevant clauses of the New Zealand Building code are listed below

Complies with the New Zealand Building Code:

- Performance Clause B1.3.2, B1.3.3 (b) and (e)
- Performance Clauses B2.3.1 (a) and B2.3.2 (a)
- Performance Clause E2.3.2
- Performance Clause E3.3.2 and E3.3.3



# 5. PRODUCT LIMITATIONS

All PPWMS's and associated products must be installed strictly as per the instructions set out in this technical manual, to areas and substrates depicted in the SCOPE OF USE section. Any application or install method beyond this technical manual is deemed to fall outside of the approved solutions and will void all warranties. There are certain limitations that need to be taken into account throughout different stages of a project, they include but may not be limited to:

#### **PLANNING:**

The Architect, Engineer and Designer are responsible for identifying and providing plans to the installer/builder for the placement of expansion joints, articulation joints or stress relief joints to be included in the project design.

#### PREPARATION:

**Substrates**: must be installed as per the technical advice of the manufacturer and meet all relevant building code clauses for tiled areas. Applications to a substrate that is not depicted in the scope of use will void warranty unless prior written approval is obtained from Progress Profiles. **Membranes**: must have adequate time to relax in an unrolled position and acclimatise to the conditions where they will be installed. A minimum of 30 minutes is recommended. Membranes must be protected from UV exposure at all times.

#### **INSTALLATION:**

**Installers**: must be trained & approved by 2UP. To install the membrane systems. Each and every process of the Installation instructions must be followed at all times, variations on the install process, unless instructed otherwise by Progress Profiles in writing will void warranty.

**Temperature**: of the air, substrate and materials must be within the range of 5°C- 35°C

**Adhesives**: refer to approved list of adhesives(6.1) and/or the approved alternatives(6.2) when selecting the adhesive to adhere the membrane. Variations from this must be approved by Progress Profiles in writing prior to installation. Follow the adhesive manufacturer's instructions for mixing and applying at all times. All membranes must NOT be installed over products or materials containing Bitumen.

**Curing times:** recommended from the adhesive manufacturer must be respected and adequate time must be allowed before the membrane can be exposed to moisture.

#### **POST INSTALLATION:**

**Protect**: the membrane on external applications and do not expose the installation to wet weather conditions until the adhesive has cured. **Cover**: the membranes and protect at all times from: UV exposure, foot traffic, other trades on site and heavy machinery.

**Finish**: Install the finishing material (ie. Stone/ Tile) as soon as possible over the membrane. All membranes must have a finishing material applied and cannot be left exposed. Where tiles on pedestals are being proposed, a skim coat or an approved lightweight screed may need to be applied over Profoil - contact 2UP for more information on a case by case basis.



The following components make up the key elements of the PPWMS. The fixing instructions for each may vary slightly so understanding each component is vital for the applicator to prove their understanding.

# 6.1. COMPONENTS LIST MEMBRANES & BANDAGES

IAIFIAIF	IVAITES G	DANDAGE
COMPONENT	IMAGE	DESCRIPTION
PROFOIL	PROPAGE OF	A low density 0.4mm thick P-E sheet waterproofing membrane lined either side with a P-P flocking to allow adhesion of cement based adhesives. Available in both 5m and 30m rolls.
PRODESO UNCOUPLING		A 3mm thick, three layer waterproofing membraned designed to also uncouple the tile installation from the substrate. Proband and Proband Koll is required to waterproof the sheet joins. Available in 30m rolls
PRODESO HEAT		A waterproofing, uncoupling and cable encapsulation all in one. At 5.5mm total thickness, the cable is completely encased into the membrane and is ready for tiling immediately following install. Available in both 5m and 15m rolls.
PRODESO SOUND		A waterproofing, uncoupling & acoustic membrane 2.3mm. Consisting of a P-P spunbond top layer and a non-woven fabric in P-P lower layer both thermo-welded to the P-E sheet waterproofing membranesives. Available in 20m rolls.
PROBAND 150/250mm	PROG. ESS PROBAND www.progressprofles.com	Available in both 150mm and 250mm widths, Proband is a low density 0.4mm thick P-E sheet waterproofing membrane lined either side with a P-P flocking to allow adhesion of cement based adhesives. Available in 30m rolls.

### **PANELS & BASES:**

COMPONENT	IMAGE	DESCRIPTION
PROFOIL PANELS		6mm, 9,mm, 13mm, 16mm, 25mm, 30mm & 50mm panels to be glued to floors or screed to walls or ceilings as water-proof linings.
PROSHOWER PANEL CENTRAL DRAIN	And the last of th	A presloped, waterproofed, central waste polystryne shower base. Used to immediately create a shower tray ready for immediate tiling.
PROSHOWER PANEL STRIP DRAIN	PRICEICOMEN FANEL  PRICEICOMEN F	A presloped, waterproofed, central waste polystryne shower base. Used to immediately create a shower tray ready for immediate tiling.

### **PASTES:**

COMPONENT	IMAGE	DESCRIPTION
PROFOIL PASTE		Ready to use thin leayer elastic membrane suitable to water- proof curved and recessed structures where application of Profoil membrane would be complicated.

# **PRIMERS & ADHESIVES:**

COMPONENT	IMAGE	DESCRIPTION
KERAKOLL PRIMER A	Prior A Co	Used to prime concrete, plaster board and cement board Primer A develops an isolating, cohesive film which neutralizes the chemical reaction between substrates and adhesives also regulating the absorption of highly porous substrates.
KERAKOLL KERAGRIP ECO	Keragrip Eco  South of the State  South of the	Used to prime wood substrates in preparation for a Prodeso Membrane to improve the power of adhesion.
KERAKOLL BIOFLEX S1	BIGLEX BIGLEX COLUMN AND ALCOHOLD BIGLEX REPARCOL	An Eco-friendly deformable mineral adhesive with an extremely high natural high natural additive content. Designed for high performance bonding with no vertical slip.
KERAKOLL BIOGEL NO LIMITS	S BIOGES THE SOLD BY	A multi-purpose adhesive for bonding all types of materials onto all substrates
PROBAND KOLL	PROBAND KOLL	A red colored fast setting single component adhesive designed for applying Porband 150/250mm to membrane joins and junctions. The Hydrophobic properties of Proband Koll ensure a waterproof seal.
PROBAND FIX	PROCRESS TO BE SOLVED TO SELECT THE SECOND TO	A silicon based moisture-curing sealant with high adhesion and elasticity to create a waterproof bond between Profoil/Proband and PVC, woods and metals.

# 6.2. APPROVED ALTERNATIVES LIST

Two adhesive systems have been approved for use in applying the Progress Profiiles waterproofing systems. No other adhesive systems have been approved.

- KERAKOLL
- MAPEI

Any appropriate adhesive system may be used over the top of these materials however consultation with those suppliers are recommended to ensure reliable performance.

COMPONENT	IMAGE	ALTERNATIVE TO:	FURTHER INFORMATION
MAPEI KERAFLEX MAXI S1	A MARKY	KERAKOLL BIOFLEX S1	Always use within manufatcurers guidelines and prepare substrate with the manufacturers recommendation on primer
KERAKOLL BIOGEL RANGE		KERAKOLL BIOFLEX S1	A range of high performance adhesives including a Rapid setting adhesive. Always prepare substrate with recommended primer.
KERAKOLL AQUA STOP FIX	ACUATOPEX  ACUATOPEX		A green coloured fast setting single component adhesive designed for applying Porband 150/250mm to membrane joins and junctions.

# 7. INSTALLATION PROCEDURES:

#### **PLEASE NOTE:**

Substrates, substrate preparation, waterproofing and subsequent tiling practices should meet the requirements outlined in the latest edition of the BRANZ Good Practice guide for Tiling:

https://www.branz.co.nz/cms\_display.php?sn=41&st=1&pg=15061

### 7.1. SUBSTRATE PREPARATION

In general, cement-based substrates must be free of dust, oil, and grease, dry and free from rising moisture with no flaky or imperfectly anchored parts such as residues of cement, lime, and paint coatings - all of which must be **completely** removed. The substrate must be stable and without cracks, must have already completed the hygrometric shrinkage curing period and must present suitable levels of mechanical resistance. Uneven areas must be corrected in advance with suitable finishing products. Ensure screeds are solid and well bonded - test by tapping with a hammer. If laying Profoil over an existing vinyl or tiled floor, ensure the existing flooring is well bonded and clean. Special primers and adhesives will be required

Cement and plasterboard lining must be installed as per manufacturers guidelines for a tiled finish with support and fixings in the correct locations and must be compliant with the L/360 deflection criteria. Be sure the correct thickness of wall board lining has been selected to cope with the hanging weight of the selected stone/tile finish. Alternatively, simply install Profoil Panels.

#### Non-absorbent substrates:

Smooth, non-absorbent substrates which are compact and well-anchored must be prepared by cleaning with products suitable for the removal of dirt present.

If compatible chemical cleaning cannot be carried out, it may be advisable to proceed with mechanical abrasion by means of shot-blasting or etching of the superficial layer and if necessary, re-surface with suitable levelling compound products. Always use the primer recommended by the adhesive manufacturer and follow the instructions carefully.

#### **High-absorbent substrates:**

On screeds and plasters which are highly absorbent it may be necessary to apply multiple coats of primer or surface sealer. Always use the primer recommended by the adhesive manufacturer and follow the instructions carefully.

### 7.2. PROFOIL

#### **WARNINGS:**

For outdoor applications protect Profoil from sunlight if left exposed for more than 2 days with drops sheets, boards or skim coat with adhesive. Protect the installation from rain for the first 48 hours. Protect against heavy mechanical loads or foot traffic & sharp objects to avoid damage.

Do not use on substrates subject to continuous rising moisture, uncured slabs or products with high RH (Relative Humidity) moisture content.

For information not explained in the technical details, please contact the Progress Profiles S.p.A Technical Department.

#### 7.2.1. FLOOR AND WALL APPLICATION

- 1. Prime and Prepare substrate if applicable.
- 2. Cut Profoil to the desired length.
- 3. Measure & mix the approved adhesive using up to 10% more water more than recommended on the bag to guarantee perfect & full coverage on the back of the membrane (<a href="https://www.youtube.com/watch?v=DJ5KNukhpdU">https://www.youtube.com/watch?v=DJ5KNukhpdU</a>).
- 4. Use a 3mm trowel & apply the approved adhesive with pressure to 100% of the substrate to be covered with 1m wide sheet. Spread notches in the same direction to allow air to escape.
- 5. Lay Profoil immediately into the wet adhesive. Press down firmly to ensure the adhesive bonds to the back of the Profoil. Work out any trapped air or folds in the sheet.

 Peel back edge of sheet to check the full contact of Profoil to the adhesive. If not sticking or completely covered increase the quantity of adhesive or press sheet down firmly. (watch the installation video at 44 seconds). <a href="https://www.youtube.com/watch?v=1Eq6XZggRuc">https://www.youtube.com/watch?v=1Eq6XZggRuc</a>



#### 7.2.2 OVERLAPPING PROFOIL SHEET JOINTS

- 1. With a 3 mm trowel apply the approved adhesive onto the floor/wall and on the first 50mm of the previous sheet.
- 2. Apply the next sheet of Profoil over the wet adhesive taking care to overlap it 50mm to the previous one.
- 3. Press down firmly to ensure the adhesive bonds to the back of the Profoil. Work out any trapped air or folds in the sheet.
- Peel back edge of sheet to check the full contact of Profoil to the adhesive. If not sticking or completely covered increase the quantity



# 7.2.3 WALL + FLOOR JUNCTIONS AND INTERNAL CORNER DETAILS METHOD 1:

- 1. Cut a piece of PROBAND 150 / 250, 400mm long and cut a fold line halfway into the center. Fold the strip in order to create an internal corner with overlap.
- 2. Apply Proband Koll (or Kerakoll Aquastop ECO Fix) with a 3mm V-notched trowel 100mm wide continuously along the floor and wall junction.
- Lay the internal corner into the fresh adhesive taking care to glue the overlapping Proband tape with more Proband Koll (or Kerakoll - Aquastop ECO Fix). Press firmly and smooth the tape and adhesive.



#### **METHOD 2: PIGS EAR DETAIL**

- Lay the Profoil in such a way that the sheet will continue up the wall and/or create a skirting detail. (minimum 75mm turn up in shower areas)
- When a single sheet is continued up two
  perpendicular walls it is possible to have a
  'Pigs Ear' fold at the internal corner. This
  will create and impervious internal corner
  without the need for cutting or bandage.
  Apply small quantities of proband fix to glue



#### 7.2.4 EXTERNAL CORNER JUNCTIONS

- 1. Cut a piece of PROBAND 150 / 250, 400mm long and cut a fold line halfway into the in the center. Fold the strip in order to create an external corner.
- 2. Cut a piece of PROBAND 150 / 250 into a square and then cut out 1 quarter to make an L shape.
- 3. Apply Proband Koll (or Kerakoll Aquastop Fix) with a 3mm V-notched trowel 100mm wide continuously along the floor and wall junction.
- 4. Lay the previously formed external corner into the fresh adhesive; Press firmly and smooth the tape and adhesive. Apply the second piece with more Proband Koll (or Kerakoll Aquastop ECO Fix) adhesive over the formed corner. Press firmly and smooth the tape and adhesive.



#### 7.2.4 INSTALLATION IN AREAS SUBJECT TO WATER PRESSURE. ie SWIMMING POOL

- Lay Profoil as previously described with 50mm overlaps.
- 2. To all junctions, or overlaps Squirt PROBAND FIX continuously along the overlap joint and spread with a small V-Notched trowel, to ensure consistent coverage 65mm each side of the joint for a total width of 130mm
- 3. Place PROBAND 150 into the PROBAND FIX.
- 4. Apply strong pressure to the PROBAND 150 to ensure good contact. Avoid the formation of folds.



### 7.3. PRODESO UNCOUPLING

#### **WARNINGS:**

- For outdoor applications protect Prodeso Uncoupling membrane from sunlight if left exposed for more than 2 days. Drops sheets, boards or skim coat with adhesive.
- Protect the installation from rain for the first 48 hours.
- Protect against heavy mechanical loads & sharp objects to avoid damage.
- Do not use on substrates subject to continuous rising moisture.
- For information not explained in the technical details, please contact the Progress Profiles S.p.A Technical Department.

#### 7.3.1. FLOOR AND WALL APPLICATION

- 1. Remove packaging and unroll the PRODESO UNCOUPLING in an area close to where the installation will take place. Allow to relax and acclimatise for no less than 30 minutes.
- 2. Prime and Prepare substrate as applicable.
- 3. Cut PRODESO UNCOUPLING to the desired length.
- 4. Measure & mix the approved adhesive using up to 10% more water more than recommended on the bag to guarantee perfect & full coverage on the back of the membrane (https://www.youtube.com/watch?v=DJ5KNukhpdU).
- 5. Use a 5x7mm notched trowel & apply the approved adhesive with pressure to 100% of the substrate to be covered with 1m wide sheet. Spread notches in the same direction to allow air to escape. Be sure to only spread an amount for which you are capable of covering within the adhesives recommended open time and always check at regular intervals the adhesive has not formed a skin prior to applying the membrane.
- 6. Firmly press the Prodeso Uncoupling membrane into the adhesive using a plastic float to ensure complete and even contact. (watch the video https://www.youtube.com/watch?v=cNyToGnvg3c). In the case of laying of tiles in environments subject to heavy traffic, in external applications, on underfloor heating systems and/or where the selected tile format is to be greater than 900 cm² (ie. larger than 30cmx30cm) it is essential to have as close to 100% adhesive coverage as possible, therefore regular checks must be made by pulling back a small area of the membrane after it has been pushed into the adhesive to ensure adhesive coverage is satisfactory.



#### 7.3.2 SHEET JOINTS AND FLOOR + WALL JUNCTIONS

- 1. Cut proband to desired length and set aside
- 2. Using the flat side of a trowel apply Proband 150 Koll to 100mm either side of join or junction to make a total of 200mm coverage. Be sure to fill the cavities of the membrane
- 3. Place Proband 150 into the fresh adhesive and press in firmly with the flat side of a trowel. Be sure the proband is fully adhered and there is no formations of folds. Proband Koll should extend at least 25mm either side of the Proband 150

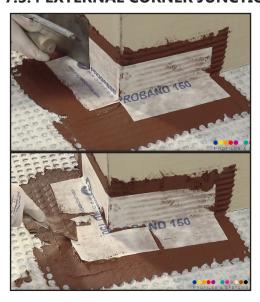


#### 7.3.3 INTERNAL CORNER JUNCTIONS

- 1. Cut a piece of PROBAND 150 / 250, 400mm long and cut a fold line halfway into the center. Fold the strip in order to create an internal corner with overlap.
- Apply Proband Koll (or Kerakoll Aquastop ECO Fix) with a 3mm V-notched trowel 100mm wide continuously along the floor and wall junction.
- Lay the internal corner into the fresh adhesive taking care to glue the overlapping Proband tape with more Proband Koll (or Kerakoll - Aquastop ECO Fix). Press firmly and smooth the tape and adhesive.



#### 7.3.4 EXTERNAL CORNER JUNCTIONS



- 1. Cut a piece of PROBAND 150 / 250, 400mm long and cut a fold line halfway into the in the center. Fold the strip in order to create an external corner.
- 2. Cut a piece of PROBAND 150 / 250 into a square and then cut out 1 quarter to make an L shape.
- 3. Apply Proband Koll (or Kerakoll Aquastop Fix) with a 3mm V-notched trowel 100mm wide continuously along the floor and wall junction.
- 4. Lay the previously formed external corner into the fresh adhesive; Press firmly and smooth the tape and adhesive. Apply the second piece with more Proband Koll (or Kerakoll - Aquastop ECO Fix) adhesive over the formed corner. Press firmly and smooth the tape and adhesive.

### 7.4. PRODESO HEAT

#### 7.4.1. FLOOR AND WALL APPLICATION

- 1. Remove packaging and unroll the PRODESO HEAT in an area close to where the installation will take place. Allow to relax and acclimatise for no less than 30 minutes.
- 2. Prime substrate as applicable.
- 3. Cut PRODESO HEAT to the desired length.
- 4. Measure & mix the approved adhesive using up to 10% more water more than recommended on the bag to guarantee perfect & full coverage on the back of the membrane (https://www.youtube.com/watch?v=DJ5KNukhpdU).
- 5. Use a 5x7mm notched trowel & apply the approved adhesive with pressure to 100% of the substrate to be covered with 1m wide sheet. Spread notches in the same direction to allow air to escape. Be sure to only spread an amount for which you are capable of covering within the adhesives recommended open time and always check at regular intervals the adhesive has not formed a skin prior to applying the membrane.
- 6. Firmly press the Prodeso HEAT membrane into the adhesive using a plastic float to ensure complete and even contact. (watch the video <a href="https://www.youtube.com/watch?v=cNyToGnvg3c">https://www.youtube.com/watch?v=cNyToGnvg3c</a>). In the case of laying of tiles in environments subject to heavy traffic, in external applications, on underfloor heating systems and/or where the selected tile format is to be greater than 900 cm² (ie. larger than 30cmx30cm) it is essential to have as close to 100% adhesive coverage as possible, therefore regular checks must be made by pulling back a small area of the membrane after it has been pushed into the adhesive to ensure adhesive coverage is satisfactory.



#### **PLEASE NOTE:**

Heating cables can be installed into the membrane immediately following installation and MUST be installed prior to applying Proband to the sheet joints and junctions.

Before installing the electric heating cables you need to check with a series of tests, that they are not damaged and ready for use. This series of tests must of course be repeated even after installation and also after installation of the flooring, to be sure that the electrical heating cables have not been damaged during one of these phases.

To run the tests you need to have a multimeter and a megaohmmeter. Refer to the **Prodeso Heat Waterproof Membrane Heat Cable Installation Manual Version 1 01/Aug/2017 for full instruction of correct Installation.** 

#### 7.4.2 SHEET JOINTS AND FLOOR + WALL JUNCTIONS

- 1. Cut proband to desired length and set aside
- 2. Using the flat side of a trowel apply Proband 150 Koll to 100mm either side of join or junction to make a total of 200mm coverage. Be sure to fill the cavities of the membrane
- 3. Place Proband 150 into the fresh adhesive and press in firmly with the flat side of a trowel. Be sure the proband is fully adhered and there is no formations of folds. Proband Koll should extend at least 25mm either side of the Proband 150



#### 7.4.3 INTERNAL CORNER JOINTS:

- Cut a piece of PROBAND 150 / 250, 400mm long and cut a fold line halfway into the center. Fold the strip in order to create an internal corner with overlap.
- 2. Apply Proband Koll (or Kerakoll Aquastop ECO Fix) with a 3mm V-notched trowel 100mm wide continuously along the floor and wall junction.
- Lay the internal corner into the fresh adhesive taking care to glue the overlapping Proband tape with more Proband Koll (or Kerakoll - Aquastop ECO Fix). Press firmly and smooth the tape and adhesive.



#### 7.4.4 EXTERNAL CORNER JUNCTIONS

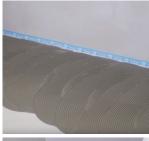


- 1. Cut a piece of PROBAND 150 / 250, 400mm long and cut a fold line halfway into the in the center. Fold the strip in order to create an external corner.
- 2. Cut a piece of PROBAND 150 / 250 into a square and then cut out 1 quarter to make an L shape.
- 3. Apply Proband Koll (or Kerakoll Aquastop Fix) with a 3mm V-notched trowel 100mm wide continuously along the floor and wall junction.
- 4. Lay the previously formed external corner into the fresh adhesive; Press firmly and smooth the tape and adhesive. Apply the second piece with more Proband Koll (or Kerakoll - Aquastop ECO Fix) adhesive over the formed corner. Press firmly and smooth the tape and adhesive.

### 7.5. PRODESO SOUND

#### 7.5.1. FLOOR APPLICATION

- 1. Remove packaging and unroll the PRODESO SOUND in an area close to where the installation will take place. Allow to relax and acclimatise for no less than 30 minutes.
- 2. Prime substrate if applicable.
- 3. Apply PROECOFON, self-adhesive sound insulation band 5x 50mm to perimeter of all walls.
- 4. Cut PRODESO SOUND to the desired lengths.
- 5. Measure & mix the approved adhesive using up to 10% more water more than recommended on the bag to guarantee perfect & full coverage on the back of the membrane (https://www.youtube.com/watch?v=DJ5KNukhpdU).
- 6. Use an 8mm notched trowel & apply the approved adhesive with pressure to 100% of the substrate to be covered with 1m wide sheet. Spread notches in the same direction to allow air to escape. Be sure to only spread an amount for which you are capable of covering within the adhesives recommended open time and always check at regular intervals the adhesive has not formed a skin prior to applying the membrane.
- 7. Firmly press the Prodeso SOUND membrane into the adhesive using a weighted roller to ensure complete and even contact. (watch the video https://www.youtube.com/watch?v=Gs-fQK0OmZn4&t=82s). It is essential to have as close to 100% adhesive coverage as possible, therefore regular checks must be made by pulling back a small area of the membrane after it has been pushed into the adhesive to ensure adhesive coverage is satisfactory.
- 8. Between abuted sheet joints ensure there is a 10mm gap in the adhesive bed either side of the sheet joint. This air pocket will not transmit sound through the joint.
- 9. Allow the same 10mm gap in adhesive bed around the perimeter of the room.
- 10. Cover all sheet joints with PRODESO SOUND TAPE to prevent adhesive filling the voids during tile installation. Also apply along the perimeter of the room.
- 11. If waterproofing is required then apply PROBAND 150 with PROBAND FIX in lieu of sound tape.
- 12. After tiles installation trim the protruding PROECOFON insulating tape to top of the tiles.
- 13. Skirtings or skirting tiles must have a minimum of 2mm spacing above the tiles.













### 7.6. PROFOIL PANELS

#### 7.6.1. FLOOR APPLICATION

- 1. Prime substrate if applicable.
- 2. Cut PROFOIL PANELS to the desired lengths.
- 3. Measure & mix the approved adhesive using up to 10% more water more than recommended on the bag to guarantee perfect & full coverage on the back of the membrane (https://www.youtube.com/watch?v=DJ5KNukhpdU).
- 4. Use an 8mm notched trowel & apply the approved adhesive with pressure to 100% of the substrate & to back-butter the back of the panel. Spread notches in the same direction to allow air to escape. Be sure to only spread an amount for which you are capable of covering within the adhesives recommended open time and always check at regular intervals the adhesive has not formed a skin prior to applying the membrane.
- 5. Firmly press the Profoil Panel the adhesive to ensure complete and even contact. It is essential to have as close to 100% adhesive coverage as possible.
- 6. Allow 5mm gap around the perimeter of the room for expansion & contraction.
- 7. If waterproofing is required then apply PROBAND 150 with the same adhesive used to apply the panel to the substrate.

#### 7.6.2. WALL APPLICATION

- 1. Cut PROFOIL PANELS to the desired lengths.
- 2. Screw off sheet to framing 50mm in from edge of sheet and at 250crs thereafter.
- 3. If waterproofing is required then apply PROBAND 150 with the same adhesive used to apply the panel to the substrate.
- 4. To waterproof over screws apply PROBAND FIX liberally.











### 7.7. PROSHOWER PANELS

#### 7.7.1. FLOOR APPLICATION

- 1. Prime substrate if applicable.
- 2. Cut PROSHOWER PANELS to the desired lengths.
- 3. Measure & mix the approved adhesive using up to 10% more water more than recommended on the bag to guarantee perfect & full coverage on the back of the membrane (https://www.youtube.com/watch?v=DJ5KNukhpdU).
- 4. Use an 8mm notched trowel & apply the approved adhesive with pressure to 100% of the substrate & to back-butter the back of the panel. Spread notches in the same direction to allow air to escape. Be sure to only spread an amount for which you are capable of covering within the adhesives recommended open time and always check at regular intervals the adhesive has not formed a skin prior to applying the membrane.
- 5. Firmly press the PROSHOWER PANEL into the adhesive to ensure complete and even contact. It is essential to have as close to 100% adhesive coverage as possible.
- 6. Allow 5mm gap around the perimeter of the room for expansion & contraction.
- 7. Waterproofing to wall junctions with PROBAND 150 and the same adhesive used to apply the panel to the substrate.













# 7.8. PROFOIL PASTE

#### 7.8.1. INTERNAL WALL & FLOOR APPLICATION

- 1. Re-mix the product in the bucket before applying.
- 2. Roll the paste onto floor and walls in 2 coats both 1mm thick creating a 2mm thick build up.
- 3. Wait a minimum of 1hr between coats.
- 4. Apply Proband 150 to internal & external corners and floor to wall junctions using cement based adhesive.





# 8.1 BUILDING PRODUCT QUALITY PLAN (BPQP)

#### **Safety Data Sheets**

All SADS's are available on request.

Progress profiles S.p.A monitor and maintain records and reports of manufacture, distribution and the application of the PPWMS in accordance with a Building Product Quality Plan, BPQP.

- Manufacturer's quality control check-list
- Records of batch numbers and manufacturing dates
- Records of batch number distribution
- Pre-check and job completion checklist.

### 8.2 MAINTENANCE

There are no maintenance requirements for the PPWMS if installed as per this Technical Manual for the life of the membrane and once the finished product (ie.stone/tile) has been installed covering the membrane in its entirety.

Take care to protect the membrane from damage prior to or during the installation of the finishing product(ie.stone/tile).

Should Any Damage to the membrane occur, it must be fixed immediately so as not to compromise the effectiveness of the waterproof membrane application. If the area is finished, stop use of the wet area immediately to limit any further damage of the substrate and/or structure. Phone 2UP within 48 hours of finding the damage and ask for advice on remediation.

### 8.3 WARRANTY INFORMATION

# PROGRESS PROFILES S.P.A 15-YEAR LIMITED WARRANTY

**COVERAGE AND CONDITIONS:** Subject to the conditions and limitations as stated hereinafter, Progress Profiles S.p.A\* (The "Progress Profiles")\* warrants that- Prodeso/ Prodeso Heat/Profoil waterproof membranes (The □Product□)\*\* - will meet all composition and performance criteria 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 S.p.A Waterproof Membrane Solutions Technical Manual and Construction Codes of Australia and New Zealand that are not in conflict or 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, Construction industry professional's.

**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 Reinstall or replace the failed portion of the floor covering assembly

Pay an amount not to exceed the original square meter cost of the installation of the floor covering assembly verified to be defective.

Floor covering assembly is defined to include all Product membrane, non-reusable flooring 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 FLOORING SYSTEM OF WHICH THEY ARE PART, NOR MISUSE OF THE PRODUCTS OR FLOORING SYSTEM, 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 ATHER 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.

### **8.3 WARRANTY INFORMATION**

# PROGRESS PROFILES S.P.A 15-YEAR LIMITED WARRANTY

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 referred to as □Owner□) and is not transferable or assignable, unless approved in writing by the Technical Director or an Officier 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 1 Aug, 2017.

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 the agent of the country to investigate:

For Australia contact: Progress Profiles Oceania Pty Ltd email ppo@progressprofiles.com

For New Zealand contact: 2UP Ltd Stu@2UP.nz

- \* For the purpose of this warranty Progress Profiles shall provide the warranty for the Product for end users located in the Australia and New Zealand. This warranty is limited to sales of the Product made in and intended for use within Australia and New Zealand
- \*\*Progress Profiles (the "Product"): The Product is defined as the uncoupling and waterproofing membranes included for Interior use in kitchen, bathroom and laundry area's and exterior use in balconies and roof area's only refer to Progress Profiles Waterproof Membrane Systems Technical Manual.

# **8.4 WARRANTY REQUIREMENTS**

To qualify for the **PROGRESS PROFILES WATERPROOF MEMBRANE SYSTEM** Warranty the following are required:

- 1. Submit completed Waterproofing Registration form with required "before" install photos
- 2. Pre-Job conference with the PROGRESS PROFILES WATERPROOF MEMBRANE SYSTEM Distributor before product application
- 3. Submit "before", "during" and "after" job photos
- 4. Payment to Distributor for all materials in full, before warranty is issued.
- 5. PROGRESS PROFILES WATERPROOF MEMBRANE SYSTEM Membrane Warranty will be issued after all submitted materials have been reviewed & approved. Failure to provide the above requirements precludes Progress Profiles from being able to issue the warranty.

#### **PHOTO REQUIREMENTS**

**BEFORE:** Overview – 3 minimum, at least of the following each:

- From the Ground
- Overview
- Access points

**DETAIL**: 6 minimum. Include the following where applicable

- Wall Transition Seams Detail Scuppers
- - Drains Parapet walls Vertical projections
- - Roof edge AC Units Skylights

**AREAS OF CONCERN:** 2 minimum of each area of concern

**DURING APPLICATION:** Any areas of concern

**AFTER:** Duplicate photos from same areas in Overview, Detail, and Areas of Concern, AFTER installation of PROGRESS PROFILES WATERPROOF MEMBRANE SYSTEM, BEFORE covered in any way

#### **IMPORTANT**

- Each job must be individually reviewed by the Distributors' Technical Representative PRIOR to quoting.
- Any pre-job materials submitted after the start of a job will not be accepted. ("Start" of a job implies any and all work applying to a job to be warrantied, including surface preparation.)
- The Distributor does not guarantee a warranty will be issued for every submitted request. Warranty eligibility will be determined after the review of all required submitted materials.

### Progress Profiles Waterproof Membrane Systems

### WATERPROOFING WARRANTY APPLICATION FORM

VVA I	ERPROOFING WARRANTT APPLICATION FORW
Aplicator inform	ation:
Company Name:	Aplicator Name:
Company Phone:	License No:
	Aplicator Phone:
Project informa	tion:
Site Address:	City:
Building Consent No:	Building Use: Residential / Commercial / Other(specify below)
Building owner:	
Architect:	Main Contractor:
Job information	on: (CIRCLE ONE)
Area(s) to waterproof:	SHOWERS ONLY x FULL BATHROOMS x FLOORS ONLY (acrylic base & liner) x
Other:	BATH CRADLE ONLY - BALCONY - ROOF TERRACE - SWIMMING POOL
Floor Substrate(s):	CONCRETE - FIBRE CEMENT - SCREED - PARTICLE BOARD/PLYWOOD
Wall Substrate(s):	CONCRETE - FIBRE CEMENT - PLASTER BOARD
Substrate preperation:	PRIMER - specify type: OTHER PREP - specify
Product informa	ation: (CIRCLE ONE)
Membrane(s):	PRODESO PROFOIL: WALL / FLOOR Membrane batch Number:
	PRODESO UNCOUPLING*: WALL / FLOOR Membrane batch Number:
	PRODESO HEAT* **: WALL / FLOOR Membrane batch Number:
* Only required if used as wat " When using PRODESO HEA	erproofing. If system, please be sure to also fil in the 'Cable Test Log' form
Membrane adhesive:	BIOFLEX S1 - BIOGEL NO LIMITS - H40 RAPID - KERAFLEX MAXI S1
Joint tape:	PROBAND 150 - PROBAND 250
Joint tape adhesive(s):	PRODAND KOLL - AQUASTOP FIX - PROBAND FIX
Job Completed	I on: dd/mm/yyyy
2)The aplicator has been 3) The Progress Profiles 4) Any variations from the 5) All substrates are fit for 6) Photos of before, durin 7) A pre-tiling flood test has	is accurate to the specific job stated signed off by 2UP as an approved installer. Waterproof Membrane Systems have been installed in accordance the latest technical manual (Sept 2019, Version 1.3) technical manual have been approved in writing by Progress Profiles prior to Installation ritile installation as per. New Zealand Building Code. g and after installation have been taken and will be stored by the aplicator to be reproduced in future if requested as been performed on the shower bases for a minimum of 12hrs and photos taken as evidence
Signature:	Date:









# 9.0 CHECKLIST

APPLICATORS			
APPROVED APPLICATOR?  All installers MUST be approved and registered to install Progress Profiles membranes by 2UP. Not yet approved?  Call 2UP and ask about installer training.			
SKILLS UP TO SCRATCH?  Whether it's your first time or it's just been a while, it pays to do your homework. Brush up by watching the youtube videos in the links below but if you're unsure, always call BellaRoc for technical questions and installer advice. Profoil - <a href="https://www.youtube.com/watch?v=3f4Y7CgumOE">https://www.youtube.com/watch?v=3f4Y7CgumOE</a> Prodeso Uncoupling - <a href="https://www.youtube.com/watch?v=j-b-QdDx_2M">https://www.youtube.com/watch?v=j-b-QdDx_2M</a> Prodeso Heat - <a href="https://www.youtube.com/watch?v=UWAEiCxjG7c">https://www.youtube.com/watch?v=UWAEiCxjG7c</a>			
PRE JOE	3 CHECK		
phone 2UP for a project specific specification  SUBSTRATE(S) UP TO STANDARD AND FIT FOR TILII Always ensure substrates are fit for tiling prior to common Preparation (7.1) of the Progress Profiles membrane system  PHOTOGRAPH THE AREA PRIOR TO COMMENCING Take at least three photos and include the substrate, and	encing waterproofing of any kind. Refer to Substrate tem technical manual for more information. <b>THE INSTALLATION!</b> overview of the area and the access point(s). As the lifetime of the warranty and reproduce if requested by 2UP.		
MATERIALS REQUIRED	TOOLS REQUIRED		
PRIMER substrate & adhesive type should be considerations when selecting primer  ADHESIVE only approved adhesives can be used to apply Prodeso Membranes  PROBAND KOLL used in conjunction with Proband to waterproof joins and junctions  PROBAND FIX used to adhere Proband and Profoil to PVC. e.g. Waste puddle flange.  PROBAND 150/250mm used in conjunction with Proband Koll to waterproof joins and junctions  PRODESO MEMBRANE Select from Profoil, Prodeso Uncoupling and Prodeso Heat depending on job requirements	BROOM AND/OR VACUUM to clean the area that will receive the membrane as well as the area where you will be cutting the membrane SPONGE AND/OR ROLLER to apply the Primer SCISSORS OR KNIFE to cut the membranes MEASURING JUG AND SCALES measure adhesive to water ratios MIXING DRILL to mix adhesive  3 X 3mm NOTCHED TROWEL for Profoil and Proband  5 X 7mm NOTCHED TROWEL for Prodeso Uncoupling and Prodeso Heat PLASTIC FLOAT for pressing membranes into adhesive		
<ul> <li>■ UNPACKAGE AND UNROLL THE MEMBRANE         This is especially important with the Prodeso Uncoupling and Prodeso Heat. Unpack and unroll as close as you can to the area where you will be installing. Let the membrane(s) relax and acclimatise for at least 30minutes     </li> <li>■ CONFIRM YOU HAVE ENOUGH PRODUCT TO COMPLETE THE TASK         Check measure your areas and sheet drops to ensure offcuts and waste do not leave you short.     </li> </ul>			