



# WALLBARN PRO-SEAL

AN EFFECTIVE, EASY TO USE WATERPROOFING MEMBRANE FOR  
DRY, CURED CONCRETE ON TANKING AND PODIUM DECKS



Pro-seal is a new damp-proof and waterproofing membrane from Wallbarn. It is a cold applied, easy to install sheet membrane made from elastomeric modified bitumen, designed as a fast, effective waterproofing solution for both horizontal and vertical surfaces.



It can be used on areas such as roofs, basements, wet areas, canals, culverts and civil engineering works. It is especially suited to tanking and subterranean waterproofing on a vertical plane.

It has excellent adhesion and flexibility properties and can accommodate some movement. It has high tensile and puncture resistance, possesses superior tear strength, and can be installed without any requirement for special tools or techniques.

#### Pro-seal has the following advantages:

- It is a much faster, cleaner way to seal and secure structural concrete than with liquid membranes
- It is safer than using super-heated materials
- It is non-toxic and safe to handle
- It ensures a consistent thickness level across the whole concrete structure unlike liquid applied membranes



This reinforced membrane is manufactured in sheet form with an HDPE film backing on one side. The other side is covered with a slip release paper layer which is peeled off before the membrane is applied to the surface. This ensures that the bitumen does not become contaminated with dirt or grit, or stick to itself on the roll, making it much easier to measure and install. Once the first section of the bitumen is positioned into place the paper can be peeled off. This creates a viable, reliable waterproofing membrane which is bonded quickly and effectively onto concrete surfaces.





## APPLICATION

Simply cut to size, place onto the surface and slowly and carefully remove the paper cover, pressing the membrane down as installers work along the area. The membrane will bond to itself and has self-healing properties.

It is important that none of the membrane gets snagged onto the structure before applicators wish to fix it into position as this may compromise the seal. The slip paper ensures this does not happen until the applicators wish to do so.

Once in place, the membrane is pressed onto the concrete structure using a wooden roller and some pressure. The bond will increase over time.

**Please note that Wallbarn Pro-seal is not suitable for wet, damp or uncured concrete structures. Always ensure the concrete is dry.**

Pro-seal comes in a thickness of either 1.5mm or 2mm. It is extremely tough and durable. Unlike many other self-adhesive membranes on the UK market, all Wallbarn Pro-seal membranes are manufactured with an integrated reinforcement mesh. This gives them far superior tensile strength and puncture resistance, whilst still maintaining full flexibility.



IT IS ADVISABLE THAT THE PRO-SEAL MEMBRANE IS COVERED WITH SOME SORT OF PROTECTION. WALLBARN PROTECTO-BOARD CAN BE TORCH-BONDED TO THE WATERPROOFING, OR PROTECTO-DRAIN HDPE MEMBRANE IS SUITABLE FOR AREAS WHICH MAY REQUIRE DRAINAGE MANAGEMENT.

## TECHNICAL DATA

| PRODUCT                                 | GB 1550 & 2000        | PB 1600 & 2100         | TEST METHOD              | TOLERANCE |
|---|-----------------------|------------------------|--------------------------|-----------|
| ROLL LENGTH                             | 15M                   | 15M                    | EN 1848-1                | <-1%      |
| ROLL WIDTH                              | 1M                    | 1M                     | EN 1848-1                | <-1%      |
| STRAIGHTNESS                            | PASS                  | PASS                   | EN 1848-1                | <20MM     |
| THICKNESS                               | 1.5MM                 | 1.6MM                  | ASTM D 5147<br>EN 1849-1 | -0.2MM    |
| MASS PER UNIT AREA                      | 1.6 KG/M2             | 1.7 KG/M2              | EN 1849-1                | +10%      |
| REINFORCEMENT                           | GLASS FIBRE - 50GSM   | POLYESTER - 150GSM     |                          |           |
| CARRIER                                 | 100 MICRONS HDPE      |                        |                          |           |
| TEAR RESISTANCE                         |                       |                        |                          |           |
| • LONGITUDINAL                          | 230 N                 | 475 N                  | ASTM D 1004              |           |
| • TRANSVERSE                            | 220 N                 | 275 N                  | ASTM D 1004              |           |
| ELONGATION AT BREAK                     |                       |                        |                          |           |
| • LONGITUDINAL                          | 55%                   | 55%                    | EN 12311-1               | 15%       |
| • TRANSVERSE                            | 75%                   | 75%                    | EN 12311-1               | 15%       |
| MEMBRANE TENSILE STRENGTH               |                       |                        |                          |           |
| • LONGITUDINAL                          | 6.8 N/MM<br>425 N/5CM | 10.4 N/MM<br>650 N/5CM | ASTM D 638<br>EN 12311-1 | -20%      |
| • TRANSVERSE                            | 5.2 N/MM<br>325 N/5CM | 7.2 N/MM<br>450 N/5 CM | ASTM D 638<br>EN 12311-1 | -20%      |
| RESISTANCE TO STATIC LOADING (METHOD A) | 15 KG                 | 20 KG                  | EN 12730 MIN             |           |
| RESISTANCE TO IMPACT                    | 300 MM                | 700 MM                 | EN 12691 MLV             |           |
| ADHESION TO                             |                       |                        |                          |           |
| • SELF                                  | 1.8 N/MM              | 1.8 N/MM               | ASTM D 1000              |           |
| • PRIMED CONCRETE                       | 1.8 N/MM              | 1.8 N/MM               | ASTM D 1000              |           |
| LOW TEMPERATURE FLEXIBILITY             | -15°C                 |                        | ASTM D 5147<br>EN 1109   |           |
| WATER ABSORPTION                        | 0.15%                 | <0.15%                 | ASTM D 5147              |           |
| WATER VAPOUR TRANSMISSION               | 0.1 G/24HR/M2         | 0.1 G/24HR/M3          | ASTM E 154               |           |
| WATERTIGHTNESS TO LIQUID WATER          | PASS                  |                        | EN 1928-1                | >60KPA    |
| CHEMICAL RESISTANCE                     | CONFORMS              |                        | ASTM D 543               |           |
| PUNCTURE RESISTANCE                     | 244 N/60MM            | 245 N/60MM             | ASTM E 154               |           |
| SOFTENING POINT                         | > 105 DEG. C.         |                        | ASTM D36                 |           |
| REACTION TO FIRE                        | EUROCLASS F           |                        | EN 13501-1               |           |
| PEEL STRENGTH                           |                       |                        |                          |           |
| • SELF                                  | 1.8 N/MM              | 1.8 N/MM               | STM D 1000               |           |
| • CONCRETE                              | 1.8 N/MM              | 1.8 N/MM               | STM D 1000               |           |

**FOR MORE INFORMATION PLEASE CONTACT:**

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