

## Description

Gripset BRW-PFN is a self-adhesive butyl rubber sheet membrane with a high strength needle punched fabric facing that supports the application of surface finishes for waterproofing internal and external areas. The high tack butyl backing provides a high performance waterproof layer with outstanding resistance to vibration, movement and flexing, delivering a waterproofing system that overcomes the limitations of liquid membranes.

Forming an instant waterproof seal when applied onto surfaces, BRW-PFN system avoids down time for drying or curing, enabling surface finishes and adhesives to be applied directly over. BRW-PFN can be finished over with Gripset adhesives, membranes, coatings, screeds, mortars, renders, and approved decorative finishes.



## Features & Benefits

- Self-adhesive application
- Self-sealing edge
- Outstanding high bond adhesion over surfaces applied to
- Excellent performance in low to high temperatures, -30°C to 80°C
- Flexible and excellent vibration resistant properties
- Anti-fracture properties
- Primer-less application on metallic, plastic and glazed surfaces
- Cold lay applied, ease of workability. No torching or heat welding
- Excellent waterproof and vapour resistant properties
- Outstanding adhesion and flexibility in cold temperatures, no cracking
- No risk of "bleed" or yellowing effects, as per bitumen based products
- No solvent or hazardous primers or adhesives emitting dangerous fumes
- Instant sealing properties, no drying required
- Rupture and tear resistant
- Solvent free and non-toxic
- Ability to finish with Gripset coatings and non-solvent surface finishes
- Compatible with cement based tile adhesives, screeds/renders, textures
- Compliant to AS4858 and AS4654

## Application

- Wet area waterproofing, ideally suited on non-porous surfaces
- Waterproofing over existing tiles, vinyl or timber flooring
- Waterproofing surfaces in cold and/or humid environments
- Anti-fracture system over cracked concrete and floor substrates
- Roof waterproofing system on new or failed membranes
- Multi – layered high performance system with Gripset BRW-HD
- Waterproofing balconies, decks on dense/non-porous surfaces
- Box gutter waterproofing system
- Patching pin holes and pitted areas on metal surfaces

**Note:** BRW-PFN is to be finished over with surface finishes for internal areas and with UV resistant finishes when used externally.

## Substrates

Gripset BRW-PFN will adhere to common and specialist building surfaces, including:

- Primed or dense concrete
- Scyon, compressed CFC sheeting
- Galvanised iron, zincalume, copper, aluminium, and most metallics
- Timber sheeting
- Structural floor sheeting, CFC sheeting
- Glazed surfaces
- Marble, granite and ceramics
- Soft and rigid plastics, PVC, DPC films
- Existing coatings including epoxy, polishes, paint surfaces
- Over failed water based and solvent based liquid membranes

Existing coatings and coverings must be well bonded to substrates – refer Gripset Technical Dept for further details.

## Surface Preparation

BRW-PFN requires surfaces to be dried and free of surface moisture.

Surfaces must be prepared thoroughly before commencing application.

All substrates must be structurally sound, smooth, stable, dry, and clean. Rough surfaces and voids to be evened or filled first. (refer to Gripset 11Y for concrete/masonry repairs). All general surface defects to be repaired.

Building surfaces must be constructed to manufacturer's recommendations and relevant building standards in force at time of membrane application.

All surfaces are to be free of sharp protruding objects, loose material, dirt, dust, de-bonded coatings, curing membranes/agents, release agents, wax residues, foreign particles, laitance, algae and moss, grime, oils, animal fats or grease remains.

Structurally unsound layers and surface contaminants are to be mechanically removed by abrasive blasting, blast tracking, grinding or equivalent methods. All metals must be free of oils, grease and wax residues. Use suitable degreaser or isopropyl solution to ensure surfaces are free of residues before application commences.

## Priming

Priming is generally not required on metal, plastic and glazed surfaces that are clean, stable, free of residues and mechanically sound.

For porous surfaces – prime with Gripset GP or Xpress H20. If surface dust is present after priming, apply a 2nd primer coat.

Damp surfaces with residual moisture – prime with Xpress H20 or with Gripset E60. Ground concrete with rising damp must be prepared with Gripset E60 first.

For non-porous surfaces – primer is generally not required. Non-porous surfaces requiring a primer are to be primed with Xpress SP Primer. Check with Gripset Technical Dept for confirmation of primer needs.

\*Refer to relevant data sheets for specific primer application and coverage details

## Installation

BRW-PFN sheet membrane is supplied in a 10m x 1m wide roll. When the membrane is applied less than roll length, measure dimensions needed for the application and using a sharp knife or scissors, cut lengths required then re-roll sheet up in preparation for adhering to surfaces. The BRW-PFN sheet is to be adhered on all floor areas to be waterproofed, abutting edges of the walls of these areas.

When applying BRW-PFN on sloped or graded surfaces, start by laying the membrane from the lowest point (nearest to drainage point) and working upwards to higher points (away from drains). Ensure overlaps formed are aiding drainage of water and not creating counter gradient overlaps.

When laying the sheet into position, remove approx. 100-200mm of release paper from the rear butyl rubber side and tack this onto the surface. Continue to slowly remove the rear release paper while the sheet is being unrolled and remove any creases or air bubbles with a flat trowel, heavy roller, dry sponge or float to ensure the sheet is firmly bonded to the substrate. To utilise the in-built sealing strip on sheet edges to create a sealed lap between sheets. Remove the release tape on the sealing strip and place the overlapping sheet onto this ensuring the overlapping sheet lines up along the guide line. Ensure the sheet is well pressed at overlaps, corners, edges and termination points.

Over pipe penetrations, the BRW-PFN sheet is to be cut to enable the sheet to slide over penetrations. This is best achieved by measuring the pipe diameter and in the position where the sheet will cover the pipe, a cross "+" should be cut that is the pipe diameter length and sliding this over the pipe.

Trim any of the loose membrane around the upturn of the pipe from the section where the cross "+" was formed ensuring the sheet is firmly bonded around the pipe/penetration.

All sheet joints must have a minimum 50mm overlap. All overlaps and junctions are to be coated with 100mm wide of Gripset liquid membrane; 38FC or Xpress multi pro are recommended.

The use of protection boards are recommended to be used for following trades, avoid placing tools and equipment on exposed BRW PFN sheets.

## Bond Breaker System

The Elastoproof Butyl Tape can be used at wall/floor junctions as the perimeter bond breaker. Using the 150mm or 80mm wide Butyl tape, create the internal corner junctions first and install in place. Then overlap sections of the tape overlapping the installed corners, pressing into place.

Alternatively, Elastoproof Prefabricated Corners and the Elastoproof Joint band can be used as the system bond breaker. First install prefabricated corners in place (internal 90° and external 270° available), then overlap the Elastoproof Joint Band onto corners, wetting fabric edges of the joint band and corners into a coat of Gripset 38FC liquid membrane, extending 150mm up walls and onto installed BRW-PFN sheet on floor.

Once in place, the Gripset 38FC membrane is to be brushed or rolled over the face and onto all edges of the Joint Band adhering to the BRW-PFN sheet, to fully seal the lip of the Joint Band and BRW-PFN sheet membrane. This also applies to where the Elastoproof Butyl Tape has been used at wall/floor junctions.

For floor pipes protruding floors, Elastoproof Collars are to be fitted over the neck of the pipe bonding the collar to the BRW-PFN sheet within a wet bed of Gripset 38FC liquid membrane. Once fixed, seal edges of the collar to the BRW-PFN sheet and turn up and seal to pipe with a liberal coat of Gripset 38FC.

For leak control flanges, Elastoproof Butyl Squares are to be fitted directly over ensuring the interface between BRW-PFN sheet and edge of flange is bridged. Seal edges and complete face of Butyl Square with liberal coat of Gripset 38FC liquid membrane turning membrane down into the waste.

## Tiling & Surface finishes

The BRW-PFN membrane is compatible with a range of surface toppings, including tiles, adhesives and other decorative finishes. All finishes applied directly over the BRW-PFN membrane must be solvent free.

Screeding over the BRW-PFN membrane incorporate the Gripset 11Y additive into the screed to enhance adhesion to the membrane. Alternatively, Gripset C-Bed pre-bagged screed can be used directly onto the membrane. The face of the BRW-PFN sheet should be lightly sponged over with clean damp sponge to ensure the surface is clean prior to any direct fixing of screeds or tile adhesives.

Tile adhesives being directly fixed to the BRW-PFN Sheet membrane are to be polymer modified. Pre-mixed adhesives and cement based compounds without any polymer enhancement are not to be used for direct adhesion to the membrane.

**Note:** All tiling is to be carried out to AS3958.1 – 2007 "A Guide To The Installation of Ceramic Tiles"

## Storage conditions

Best stored at room temperature in dry internal conditions

- Product is best used within 12 months of purchase; however, properties of product will be unchanged if stored correctly
- Best stored at room temperature in dry internal conditions.
- Not affected by frost, or cold floors
- Keep product stored upright vertically

## Packaging

10m x 1m Roll packed in cardboard cartons. Pallet 49 x 10m rolls

## Precautions

- Not to be used as an exposed membrane finish, must be finished over
- Not to be used as a trafficable surface
- Not to be used over expansion joints
- Concrete surfaces containing residual moisture must be sealed with Gripset P10 or E60 vapour barrier primer before applying membrane
- Do not apply solvent based finishes or adhesives directly over BRW-PFN
- For further information that cannot be found in this data sheet, contact Technical Department of Gripset Industries

## TECHNICAL DATA

<b>Colour</b>	White face fabric; butyl backing grey
<b>Thickness</b>	1mm
<b>Solids</b>	100%
<b>Specific Weight</b>	1.55g/cm <sup>3</sup>
<b>Tensile Strength (AS4654.1 appendix A)</b>	2,12mpa
<b>Elongation at break (ASTM D412)</b>	96%
<b>Tear Resistance (ASTM D1004)</b>	14N longitudinal 11N transverse
<b>Adhesion to Steel (ASTM D1000)</b>	25N/25mm
<b>Cold Adhesion to Steel (ASTM D1000)</b>	@ 10°C 14N/25mm
<b>Application temperature</b>	5° C to 45° C
<b>Service temperature</b>	- 30° C to 80° C

## Notes

It is recommended before commencing the application; that adhesion of products to be used (e.g. primers, membranes, coatings adhesives etc) is tested over a typical area of the prepared surface to ensure satisfactory adhesion. It is the responsibility of the applicator to carry this out and accept the substrate suitability before any application starts. Gripset Industries offers a service for pre-testing adhesion to surfaces for large commercial areas or unusual substrates. For further details contact Gripset Industries.

Details contained in product data sheets are general. For any situation or items not covered in this data sheet, it is the responsibility of the applicator to check with Gripset Technical Services before commencing the application. A written confirmation will then be issued by Gripset Technical Services.

## RLA Polymers

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## Product Disclaimer

This Product Data Sheet (PDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this PDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Gripset Industries does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.