Technical Data Sheet ISSUED JUNE 2025

PRODUCT DESCRIPTION

WPA 1500 is a next generation, high performance decoupling and waterproofing sheet membrane for use under tile and stone installation in commercial and residential applications. WPA 1500 is specifically designed for use in areas where differential movement needs to be mitigated. WPA 1500 consists of a base layer of non-woven polypropylene fabric anchoring fleece, thermally welded to a high density polyethylene core, water impermeable core. The top layer consists of non-woven polypropylene fabric, thermally welded to the core, providing an excellent key for subsequently applied tiles adhesive systems.

The WPA 1500 core is constructed with 3mm deep circular cavities, which create interconnected channels beneath the membrane and also provide the tile system with mortar columns which transfer loads to the substrate. As a result, the decoupling function is achieved without sacrificing the ability of the system to accommodate and distribute point loads even in commercial, high traffic applications.

WPA 1500 may be used as a stand-alone decoupling system a waterproofing system and/or a vapour management system, while providing a structurally sound substrate for tile or stone installations.

Recommended for:

- Rooftops and balconies
- Internal wet area floors
- Sauna floors
- Shopping centres
- Areas subject to differential movement
- Cracked substrates
- Green screeds

FEATURES AND BENEFITS

- Multi-function product
- Excellent waterproofing properties
- Effectively neutralises differential movement
- Eliminates transmission of in-plane substrate cracks
- Non-hazardous
- Heavy duty
- Light weight and easy to install
- Fast track system

INSTALLATION PROCEDURE

Substrates

WPA 1500 is suitable for concrete, screeds, fibre-cement sheeting, PAA certified structural and marine plywood and lightweight structural fibre cement sheeting.
Always contact the manufacturer if there is any doubt about the suitability of the substrate.

Preparation

All surfaces must be firm, clean, dry, sound and smooth. All laitance, grease, oil, wax, curing compounds, loose material, paint and any other contaminants which may reduce or prevent adhesion must be mechanically removed. Masonry surfaces must be pointed flush and surface defects repaired.

Cement screeds must be cured for a minimum of 24 hours. New concrete must be cured for a minimum of 7 days.

Priming

Follow the priming instructions for the product selected to adhere WPA 1500 to the substrate.

INSTALLATION

Decoupling System

Cut WPA 1500 to the desired length, leaving no more than a 5mm wide gap between the product and the perimeter. Apply TPA Lite to cementitious substrates using a 6mm x 6mm notched trowel and place WPA 1500 into the wet adhesive. Embed WPA 1500 into the adhesive system using a plastic trowel.

Occasionally roll the membrane back to ensure 100% adhesive contact with the anchoring fleece. Apply additional adhesive if adhesive contact is insufficient.

Install the adjacent sheet(s) by following the above instructions, butting the sheets closely together without overlapping.

Waterproofing & Vapour Management System

Install WPA 1500 to the substrate following the above instructions.

Mix WPA 200 at a ratio of 8 litres of liquid and 10kg of powder and apply the mixed product to the wall/floor junction using a brush, ensuring the cavities in the WPA 1500 are filled. Immediately place WPA Elastoband SG into the wet WPA 200 and overcoat with an additional layer of WPA 200, ensuring the WPA Elastoband SG is completely embedded into WPA 200.

In order to waterproof the joint of the sheet, mix WPA 200 at a ratio of 8 litres of liquid to 10 kg of powder and apply to joint between two adjacent sheets with the flat side of a notched trowel to a width of approximately 200mm, ensuring the cavities of the WPA 1500 are filled. Immediately place WPA Elastoband SG into the wet WPA 200 and with the flat side of a notched trowel apply pressure to the WPA Elastoband SG to embed it in the WPA 200. Ensure that no folds or creases are formed.

Tile Installation

Tiles may be installed immediately after the installation of WPA 1500. Install tiles using TPA Lite or TPA 401M in accordance with the Technical Data Sheets.

Bayset Pty Ltd (trading as Waterproofing Products Australia)
PO Box 33 Archerfield BC QLD 4108
Phone: +61 7 3722 3822 **Email:** info@wpa-aus.com.au

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Performance Data and Physical Properties @23°C & 55% RH

- Appearance……. Sheet Membrane
- Colour……Blue/White
- Thickness……...3mm
- Longitudinal Breaking load……..490N/50mm
- Transverse breaking load…….370N/50mm
- Crack Bridging……..…10.0mm
- Service Temperature……-40°C / +80°C
- System Elongation……..…>200%

LIMITATIONS

Do not apply **WPA 1500**:

- Over contaminated substrates;
- If it is raining or if rain is imminent;
- As an exposed wear surface. Tiles or stone must applied to WPA 1500.
- In areas subject to vehicular traffic.
- Where ambient or surface temperatures are below 5°C or greater than 35°C;
- To areas of continuous immersion such as swimming pools, ponds, water features or water tanks.

Clean Up

Tools and minor spills can be cleaned with water while **WPA 1500** ancillary products are still wet.

Packaging

WPA 1500 is available in 800mm x 30m rolls.

Coverage

One roll of **WPA 1500** covers 24M^2.

Shelf Life

24 months in a dry environment away from direct sunlight. If stored at high temperatures or humidity, the shelf life may be reduced.

SAFETY INSTRUCTIONS

For instructions on the safe use of WPA 1500 please refer to the latest version of the Safety Data Sheet available from our website www.wpa-aus.com.au.

WARRANTY CONDITIONS

Bayset Pty Ltd trading as Waterproofing Products Australia (Bayset) offers a limited warranty in respect of this product, subject to certain terms and conditions set out in the warranty documentation which has been made available at www.bayset.com.au. Please contact Bayset directly to obtain a copy of the warranty documentation relevant to this product.

DISCLAIMER

The technical information and application advice given in this Technical Data Sheet is based on the present state of Bayset Pty Ltd's best scientific and practical knowledge and is intended to give a fair description of the product and its capabilities. As the information contained herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness, either expressed or implied, is given other than those required by law. In practice, the substrate and environmental conditions vary widely, making it essential for the user to determine the product's suitability for a particular application and that the product is not used beyond its physical limitations. The user is responsible for checking the suitability of products for their intended use.

*NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Bayset Pty Ltd (trading as Waterproofing Products Australia) either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Waterproofing Products Australia, are responsible for carrying out procedures appropriate to a specific application.

DOCUMENT CONTROL	
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Author	SR

Technical Data Sheets are subject to change without notice.
For latest revision, check our website at www.wpa-aus.com.au

This is a CONTROLLED document under WPA's Quality System.

Bayset Pty Ltd (trading as Waterproofing Products Australia)
PO Box 33 Archerfield BC QLD 4108
Phone: +61 7 3722 3822 **Email:** info@wpa-aus.com.au