

## Technical Data Sheet ISSUED MARCH 2022

### **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, an decoupling and 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 Scyon sheeting.

Always contact the manufacturer if there is any doubt about the suitability of substrates.

#### **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 and Vapour management**

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. Alternatively, mix WPA 200 at a ratio of 8 litres of liquid to 10kg of powder and apply to the substrate using a brush and roller. Place **WPA 1500** into the wet coat of WPA 200. Embed **WPA 1500** into the adhesive system using a plastic trowel or a roller.

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.

#### **Decoupling, Vapour management and Waterproofing**

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 Joint Band into the wet WPA 200 and overcoat with an additional layer of WPA 200, ensuring the joint band fabric 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 Fibre mesh 150 into the wet WPA 200 and with the flat side of a notched trowel apply pressure to the mesh to embed it in the WPA 200. Ensure that no folds or creases are formed.

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### 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.

### 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 1m x 30m rolls.

### Coverage

One roll of **WPA 1500** covers 30 M<sup>2</sup>.

### 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.

### WPA 1500 Ancillary Products

#### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126).

#### Inhalation

Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

### Skin Contact

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

### Eye Contact

If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

### Ingestion

Rinse mouth with water. If swallowed, do **NOT** induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

### Notes To Physician

Treat symptomatically.

### Spills

Prevent from entering drains or waterways. Absorb with sand, earth or spill control material. Collect in properly labelled containers for disposal in accordance with local statutory requirements.

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### **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](http://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 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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