

## Technical Data Sheet ISSUED OCTOBER 2023

### **PRODUCT DESCRIPTION**

WPA 560 Moisture Seal is a two component, water-based epoxy, designed as a water and vapour proof coating under water proofing membranes, ceramic tile adhesives\*, levelling compounds\* and timber floors.

\*Note: additional priming required.

Recommended for:

- Primer for damp surfaces;
- Moisture barrier on damp walls/floors;
- Sealing concrete slabs before vinyl and timber overlays;
- Primer for acrylic and polyurethane membranes;
- Retaining walls;
- Planter boxes;
- Lift wells;
- Concrete tanks;
- Basements;
- Reservoirs;
- Underground car parks.

### **FEATURES AND BENEFITS**

- Australian made
- Zero VOC
- Convenient mixing ratio, 1:1 by volume
- Withstands hydrostatic head of water pressure up to 25 meters or 250kPa
- Complies with AS/NZS 4020:2018 "Products for use in contact with drinking water"
- Water-based and user friendly

### **APPLICATION PROCEDURE**

#### **Substrates**

WPA 560 is suitable for concrete, render, screeds, block work, fibre cement sheeting, wet area plasterboard and lightweight structural fiber cement sheeting.

For difficult substrates, WPA 560 can be diluted with water to consolidate the substrate. It is recommended that no more than 5% water by volume on porous substrates and no more than 10% water by volume on dense substrates. All subsequent coats of WPA 560 must be applied neat and minimum wet film thicknesses reached.

#### **Surface Preparation**

All surfaces to be coated 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.

Fibre cement sheeting and water resistant plasterboard must be installed in accordance with the manufacturers' installation requirements.

#### **Mixing**

WPA 560 Moisture Seal should be mixed with an electric mixer with a high shear mixing paddle. Premix each individual component then combine the two components, mixing thoroughly for no less than 3-5 minutes until a blended, homogenous liquid is obtained. Avoid trapping air during mixing as this may cause pin holing. Only mix as much product as can be used within the pot life of the product.

#### **Application**

WPA 560 Moisture Seal is a minimum two coat system. The coverage rate as specified must be achieved to ensure water transmission barrier and low permeability are obtained.

Apply with a brush, roller ensuring the material is worked into the substrate surface to eliminate pin holing. Successive coats must be applied at right angles to the previous coat.

Each coat must be a minimum of 300 microns of wet film thickness to achieve the required dry film thickness of 150 microns per coat. Test the depth of coats with a wet film thickness gauge at regular intervals.

WPA 560 can also be used as an epoxy primer under waterproofing membranes. For this type of application a single primer coat is generally sufficient.

**Important: Additional priming is required prior to application of levelling compounds or installation of tiles. Contact the Bayset Technical Department for specific information.**

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

- Colour (Mixed): Light grey
- Pot life: 1 hour at 20°C
- Mix ratio: Pigmented -1:1- A:B by volume
- Re-coat: 2-4 hours
- Full cure: 5-7 days
- Coverage: 3M<sup>2</sup>/litre/coat
- Solids content: 48% by volume
- Storage: Above 5°C

#### **LIMITATIONS**

- WPA 560 Moisture Seal cure rates will be affected by surface and ambient temperature and high relative humidity.
- Do not apply to steel or metal surfaces as corrosion may occur.

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- WPA 560 Moisture seal is a vapour barrier and not a flexible waterproof membrane. A dedicated flexible membrane from the WPA range should be used if a waterproof membrane in conjunction with a vapour barrier is required.
- In enclosed areas, such as water tanks or reservoirs, ventilation should be provided to enable adequate curing.
- WPA 560 Moisture Seal will tend to yellow when left exposed to UV light.
- Discard any material that has exceeded the pot life or working time of the product.
- Do not apply over any substrates that have been previously treated or coated with curing compounds, PVA concrete bonding agents or acrylic coatings. These areas must be mechanically cleaned by grinding or shot blasting to produce a contamination free surface.
- Do not apply if rain is imminent.
- Do not expose to running water or full immersion until fully cured.

### Clean Up

Wash all equipment in water with soap or detergent immediately on completion. WPA 560 will cure under water. Do not leave items soaking.

### Packaging

8 Litre kit (4 Litre Part A, 4 Litre Part B).

20 Litre kit (10 Litre Part A, 10 Litre Part B).

### Shelf Life

12 months in unopened container stored above 5°C.

### Precautions

WPA 560 Moisture Seal cure rates will be dramatically slowed if the relative humidity is above 85%. Do not add cementitious products to WPA 560 Moisture Seal.

In enclosed areas, such as water tanks, or cubicles, ventilation should be provided to enable adequate evaporation of the coating. Allow to cure for a minimum of 24 hours at 25°C/50% RH before applying waterproofing membranes, adhesives, mortars, decorative coatings or other surface treatments.

Discard any material that has exceeded the pot life or working time of the product. Do not apply over any substrates that have been previously treated or coated with curing compounds, PVA concrete bonding agents or acrylic coatings. These areas must be mechanically cleaned by grinding or shot blasting to produce a contamination free surface.

WPA 560 Moisture Seal is rigid when cured and will not absorb movement cracks.

Subsequent coatings must be applied within 24 hours of the application of WPA 560 Moisture Seal.

### Cold Substrates and Cool Climatic Conditions

Follow mixing instructions and allow an extra minute to ensure a homogeneous paste is obtained. Allow to stand for 5 minutes after mixing as this will accelerate the curing time. Never apply thin coats as the rapid moisture loss will arrest or slow the drying reaction which can cause an amine blush. Cure rates will be dramatically slowed if substrate surface or ambient temperature is below +10°C. If WPA 560 Moisture Seal is applied in cooler climatic conditions, low substrate temperatures can produce amine blush, resulting in an oily residue and or areas of uncured tacky discolorations. Remove amine blush and uncured product prior to application of any further coating to ensure adhesion of the next coat. Before recoating, WPA 560 Moisture Seal should be allowed to cure and then washed with clean, fresh water.

24 hours prior to use, store WPA 560 Moisture Seal in a 20°C environment. If possible warm substrate surface area by an air blower or use a blower after application. Always provide adequate ventilation during the drying cycle.

### SAFETY INSTRUCTIONS

For instructions on the safe use of WPA 560 please refer to the latest version of the Safety Data Sheet available from our website [www.wpa-us.com.au](http://www.wpa-us.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](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.

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### \*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. 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.

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