

Technical Data Sheet ISSUED SEPTEMBER 2020

PRODUCT DESCRIPTION

WPA 990 is a single component, liquid applied, moisture cured polyurethane waterproofing membrane, suitable for waterproofing most non-exposed applications. **WPA 990** cures to form a seamless, tough, durable, elastomeric waterproofing membrane. **WPA 990** has excellent adhesion to most suitably primed building substrates and is suitable for above and below ground applications.

Recommended for:

- Retaining Walls
- Planter Boxes
- Internal Wet Areas, Balconies and Decks

FEATURES AND BENEFITS

- Class III membrane
- Fast curing
- Tar and bitumen free
- Permanently flexible
- Good chemical resistance
- Excellent adhesion to a wide variety of substrates
- Single component

APPLICATION PROCEDURE

Substrates

WPA 990 is suitable for concrete, render, screeds, block work, fibre-cement sheeting, wet area grade plasterboard, PAA certified structural and marine plywood and Scyon* sheeting.

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

*Must be primed with WPA 460 or WPA 560 two part water based epoxy.

Preparation

All surfaces to be waterproofed 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.

New concrete must be cured for a minimum of 28 days.

Render and cement screeds must be cured for a minimum of 7 days. Damp concrete, render or screeds must be allowed to thoroughly dry or primed with WPA 460 or WPA 560 two part water based epoxy.

Fibre cement sheeting, water resistant plasterboard, PAA structural and marine plywood and Scyon sheeting must be installed in accordance with the manufacturers' installation requirements.

WPA 990 requires a bond breaker using WPA FC sealant at all horizontal and vertical transitions and must be applied in accordance with AS3740 and AS 4654.2.

Static Crack Treatment

For cracks less than 1mm, clean cracks thoroughly before filling with a WPA FC Sealant. **WPA 990** cannot span gaps. Contact the Bayset Technical Department for further advice on treatment of dynamic movement joints.

Priming

Porous substrates must first be primed using WPA SB solvent based primer. Damp substrates, Scyon sheeting and dense substrates must be primed using WPA 460 or WPA 560 two part epoxy primer.

Apply the primer to the prepared substrate by using a brush or roller. Allow the primer to fully dry prior to applying the waterproofing membrane.

Priming Non Porous Substrates

1. WPA SB Primer is recommended for non-porous plastic and metal substrates (Except HDPE).
2. Prime all plastics and metallic non-porous substrates with WPA SB Primer using the two-cloth method described below.
3. E.g. UPVC outlets and pipe work: brass, copper fittings, stainless steel trays and flashings.

Two Cloth Method – WPA SB Primer Application

- Dampen a clean and dry cloth with WPA SB Primer and spread evenly over the non-porous substrate using a cleaning/rubbing action.
- With a second clean and dry cloth, immediately wipe all primer residue off with a buffing action.
- Allow the substrate to dry for a minimum of 5 minutes before installing **WPA 990**.
- Do not leave the primer longer than 4 hours before applying sealant/adhesive.
- Re-prime if 4 hours has elapsed without applying **WPA 990**.
- Clean and re-prime if the primed surface is contaminated before **WPA 990** is applied.

Application

Prior to application, stir the contents thoroughly. Using a brush or roller, apply the first coat of **WPA 990** after the primer has sufficiently dried. Apply an even and consistent coat of approximately 0.75mm wet film thickness.

Once the first coat has dried, apply a second coat of **WPA 990** at right angles to the first coat. Apply an even and consistent coat of approximately 0.75mm wet film thickness.

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WPA 990 must be applied with a minimum of two coats to achieve a dry film thickness of not less than 1.2mm (1200 microns). Test the depth of coats with a wet film thickness gauge at regular intervals during installation.

WPA 990 must be installed in strict accordance with AS3740 for internal wet areas and AS4654.2 for external areas.

Note: Avoid contact with skin and eyes. Wear splash proof goggles and rubber or PVC gloves at all times.

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

- Allow 24 hours between coats.
- Allow 48 hours for full cure prior to covering.
- Allow longer drying times in cool weather conditions.

Wet Form

- Appearance.....Grey
- Solids content.....80%

Cured Membrane

- Elongation>300%

Mixing

Ensure product is mixed thoroughly prior to use.

LIMITATIONS

Do not apply **WPA 990**:

- Over damp, wet or contaminated substrates.
- If it is raining or if rain is imminent.
- Directly over any existing coatings.
- Directly to particle board flooring. (Ceramic tile underlay must be installed);
- As a wearing surface for foot or vehicle traffic.
- As an exposed membrane.
- Where the surface temperature is below 10°C or greater than 35°C.
- To areas subject to negative hydrostatic pressure or rising damp.

Clean Up

Avoid spills. Equipment should be immediately cleaned with Xylene Solvent.

Packaging

WPA 990 is available in 15 litre pails.

Coverage

- 1.5-2.0 litres per M² at 1.2mm dry film thickness (8-10M² per drum).

The coverage figures are theoretical due to wastage and depending on the porosity and profile of the substrate, coverage figures may be reduced.

Shelf Life

Unopened pails can be stored for up to 6 months in a cool, dry and weatherproof environment.

If stored at high temperatures, the shelf life may be reduced.

FIRST AID

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

Inhalation

- Effects may be delayed. 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.
- If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a face mask.
- If breathing has stopped apply artificial respiration at once.
- In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.

Skin Contact

- Effects may be delayed. If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water.
- Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital.

Eye Contact

- If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

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.

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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. 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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Author	FM

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