

Technical Data Sheet ISSUED FEBRUARY 2022

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
- Balconies and Decks

FEATURES AND BENEFITS

- Class III membrane
- Fast drying
- 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, cement screeds and concrete core-fill must be cured for a minimum of 7 days.

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

For optimal performance, incorporate WPA Elastoband SG or WPA Butyl Tape at all transitions.

On retaining walls and in all Planter Box applications, WPA Drainage Cell must be installed to the entire waterproofed area, once the membrane has fully cured.

Static Crack Treatment

For cracks less than 1mm, clean cracks thoroughly before filling with a WPA FC Sealant. WPA 990 cannot span gaps. For dynamic cracks/expansion joints and control joints, the use of WPA Elastoband SG or WPA Butyl Tape systems is recommended. 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, WPA 460 or WPA 560 two-part epoxy 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. 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

Ensure product is mixed thoroughly prior to use. 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 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 drying prior to covering with cement screeds.
- Allow longer drying times in cool weather conditions.
- Allow 7 days to fully cure.

Wet Form

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

Cured Membrane

- Elongation>300%

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
- In swimming pools, spas, tanks or ponds
- Where the surface temperature is below 10°C or greater than 35°C
- To areas subject to negative hydrostatic pressure or rising damp
- Do not install tiles directly over WPA 990, a engineered self supporting screed must be installed.

Clean Up

Avoid spills. Equipment should be immediately cleaned with Xylene Solvent. Clean skin and hands using Handy Wipes.

Packaging

WPA 990 is available in 15 litre pail.

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 12 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).

Eye Contact

If this product comes in contact with the eyes:

- Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Seek medical attention without delay; if pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact

If skin contact occurs:

- Immediately flush body and clothes with large amounts of water, using safety shower if available.
- Quickly remove all contaminated clothing, including footwear.
- Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.
- Transport to hospital, or doctor.

Inhalation

If fumes or combustion products are inhaled remove from contaminated area.

- Lay patient down. Keep warm and rested.
- Prosthesis such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained.
- Perform CPR if necessary.
- Transport to hospital, or doctor, without delay.

Ingestion

If swallowed do **NOT** induce vomiting.

If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

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- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Seek medical advice.
- Avoid giving milk or oils.
- Avoid giving alcohol.
- If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

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.

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	SR

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