

Technical Data Sheet ISSUED JULY 2016

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.

Recommended for:

- Primer for damp surfaces
- Moisture barrier on damp wall/floors
- Sealing concrete slabs before vinyl and timber overlays
- Primer for acrylic and polyurethane membranes
- Dust sealing for interior concrete floors
- Primer for Scyon sheeting
- Retaining walls
- Planter Boxes
- Lift Wells
- Concrete Tanks
- Basements
- Reservoirs
- Underground Carparks.

FEATURES AND BENEFITS

- Australian Made
- Convenient mixing ratio, 1:1 by volume
- Withstands hydrostatic head of water pressure up to 25 meters or 250kPa
- Complies with AS 4020:2005 "Products for use in contact with drinking water"
- Complies with ASTM E96 for water vapour transmission
- Excellent adhesion to building substrates including concrete, fibre cement, all masonry surfaces and Scyon sheeting
- Water-based and user friendly

APPLICATION PROCEDURE

Safety Precautions

Avoid contact with skin and eyes – always wear protective clothing, safety glasses and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact.

Substrates

Suitable for:

- Properly prepared in situ, precast and tilt up concrete;
- Block work;
- Compressed fibre cement sheeting, plasterboard, James Hardie™ Scyon™ Secura™ sheeting.

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 join the two components, mixing thoroughly for a no less than 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 is 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 200 microns wet film thickness to achieve the required dry film thickness of 100 microns per coat. Test the depth of coats with a wet film thickness gauge at regular intervals.

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

- Colour (Mixed): Light grey
- Pot life: 1 hour
- Mix ratio: Pigmented -1:1- A:B by volume
- Re-coat: 4-5 hours
- Full cure: 5-7 days
- Coverage: 4-5m²/litre/coat
- Solids content: 55% 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.
- 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.

Technical Data Sheet ISSUED JULY 2016

- In enclosed areas, such as water tanks or reservoirs, ventilation should be provided to enable adequate curing.
- Allow to cure for a minimum of 24 hours at 25°C/50% R.H. before applying adhesives, mortars, decorative coatings or other surface treatments.
- 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

Refer to WPA 560 Moisture Seal MSDS prior to use. 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 48 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.

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.

Technical Data Sheet ISSUED JULY 2016

WARRANTY CONDITIONS

Waterproofing Products Australia warrant this product for 10 years provided the application is in accordance with our written directions for use and the relevant Australian Standards have been followed. The representations and recommendations regarding this product are based on tests which we believe to be reliable. However, no guarantee of their accuracy can be made due to the great range of field conditions and variations encountered in raw materials, manufacturing equipment and methods. Thus, this product is sold with a limited warranty only, and on the condition that purchasers will carry out their own tests to determine the suitability of the product for their particular purposes. Under no circumstances will Waterproofing Products Australia be liable to anyone except for replacement of the products or refund of the purchase price.

IMPORTANT

The information provided in this technical bulletin is as correct in detail as possible and is intended to give a fair description of the product and its capabilities. 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 product is guaranteed provided it is applied in accordance with our instructions as stated in this data sheet and any relevant Standard or Code, and provided the building and installation is structurally sound. Waterproofing Products Australia terms and conditions of sale apply.

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Waterproofing Products Australia publication is based on the present state of our best scientific and practical knowledge. 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. 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.