

Technical Data Sheet ISSUED AUGUST 2024

PRODUCT DESCRIPTION

WPA 460 is a two component water based epoxy primer, used to seal concrete and masonry surfaces. WPA 460 cures to a water resistant coating with excellent adhesion to the most common building substrates.

Recommended for:

- Primer for acrylic and polyurethane membranes;
- Primer for damp surfaces with <75% Relative Humidity
- Primer for lightweight structural fibre cement sheeting.

FEATURES AND BENEFITS

- Water based, user friendly;
- Convenient mixing ratio, 1:1 by volume
- Environmentally friendly;
- Excellent water resistance;
- Excellent adhesion to building substrates including concrete, all masonry, fibre cement and lightweight structural fibre cement sheeting.

APPLICATION PROCEDURE

Substrates

WPA 460 is suitable for concrete, render, screeds, block work, fibre cement sheeting, wet area plasterboard and lightweight structural fibre cement sheeting.

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 460 must 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 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

Apply with a brush or roller, ensure to work the material into the substrate surface to fill voids and eliminate pin holing.

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

- Colour (Mixed): 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: 4-5m²/litre/coat
- Solids content: 33% by volume
- Storage: Above 5°C

LIMITATIONS

Do not apply WPA 460:

- As a waterproofing membrane. WPA 460 must be coated with an appropriate waterproofing membrane from the WPA range;
- In areas subject to UV light exposure. Apply UV resistant top coat from the WPA range;
- On metallic substrates;
- If it is raining or rain is imminent.

Clean Up

Wash all equipment in water and/or detergent immediately on completion. WPA 460 will cure under water. Do not leave items soaking.

Packaging

20 Litres (10 litre Part A, 10 litre Part B).

Shelf Life

12 months in unopened containers, stored above 5°C.

Precautions

WPA 460 cure rates will be dramatically slowed if the relative humidity is above 85%. Do not add cementitious products to WPA 460.

In enclosed areas, such as water tanks, or cubicles, ventilation must be provided to enable adequate evaporation of the coating.

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 460 is rigid when cured and will not absorb movement cracks.

Subsequent coatings must be applied within 24 hours of the application of WPA 460.

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Cold Substrates & 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 460 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 460 must be allowed to cure and then washed with clean, fresh water.

24 hours prior to use, store WPA 460 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 460 please refer to the latest version of the Safety Data Sheet available from our website 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. 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 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.

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