

# Vapour Shield WB

Water based epoxy moisture & vapour barrier

## DESCRIPTION

Vapour Shield WB is an environmentally friendly, two component water based epoxy designed to act as a moisture and vapour barrier over cementitious substrates.

## PRODUCT FEATURES & BENEFITS

- Environmentally friendly, Meets “Green Star Building” Code
- Excellent adhesion qualities
- Non-flammable, negligible odour
- Adheres to most substrates including brick, masonry, compressed fibre board and timber
- Extended pot life
- Cleans up in water
- Non-taint
- Approved for use with potable water – conforms to AS4020 (1999)

## TYPICAL APPLICATIONS

- In-situ concrete
- Brick, block and stone work
- Fibre cement sheeting and AAC systems
- Precast and tilt up panels
- Concrete floors with high water content (Contact manufacturer)

## VOC RATING

### TESTED UNDER THE REQUIREMENTS OF:

### IEQ 13 VOLATILE ORGANIC COMPOUNDS “GREEN STAR TECHNICAL MANUAL”.

TVOC's calculated as the sum total of the VOC's of each individual raw material component.

The total VOC is 5 grams/ litre of ready to use product.

## APPLICATION RATES

Water vapour barrier	3m <sup>2</sup> /litre/coat
Primer	5m <sup>2</sup> /litre/coat

## PACK SIZES

Vapour Shield WB is available in 20ltr and 4ltr containers.

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## PERFORMANCE PROPERTIES

COLOUR	WHITE OR GREY
FINISH	SEMI GLOSS
VOLUME SOLIDS	40%
WEIGHT SOLIDS	53%
SPECIFIC GRAVITY	APPROX 1.25 @ 25°C
RE-COAT TIME	4 HOURS AT 25°C, 50%RH
POT LIFE	2 HOURS @ 25°C
VISCOSITY	APPROX 1500cps
FULL CURE	7 DAYS @ 25°C/50%RH
MIXING RATIO	1:1 BY VOLUME
WVT	11.3G/M <sup>2</sup> /24HR

## PREPARATION

- All surfaces to be coated must be structurally sound and free of all previous coatings, adhesives, efflorescence or laitance by abrasive blasting, high pressure water blasting, mechanical scrubbing or other means.
- All surfaces to be coated must be free of all dirt, grease, oil or other surface contaminants.
- All holes, non-structural cracks and surface deformities should be repaired prior to the application of Vapour Shield WB.
- Very porous concrete may require a third coat of Vapour Shield WB.
- Ensure recoat times are adhered to between applications, a minimum of 4 hours is required between coats at temperatures above 25°C.
- CONPELL Vapour Shield can be applied to concrete surface within the 28 day cure period. (Contact manufacturer for more information).

## MIXING

1. Mixing should be by means of mechanical forced action mixer with a high speed shear stirrer.
2. First pre-mix each individual component to form a homogeneous paste.
3. Join the two components together by equal volume, mixing thoroughly for a minimum of 5 minutes until a homogeneous paste is obtained.
4. Avoid trapping air during the mixing process as this may cause pin holing in the coating during application.
5. Only mix as much product as can be used within the pot life of the product.

## PLACING

1. Apply in a uniform manner using a brush or roller, ensure application rates are adhered to and ensure all surface voids are filled.
2. Vapour Shield WB is a minimum 2 coat system.
3. It is recommended during application that the coating depth be tested at random points with a wet film gauge/comb.
4. Avoid pin holing.
5. Successive coats should be applied at right angles to the previous coats.
6. Extreme care is needed, and if required, protection should be provided to ensure Vapour Shield WB is not damaged in any way between and after final coating.
7. Full cure in 7 days.

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## CLEAN UP

Wash all equipment in water or a water/detergent mix immediately on completion of application and mixing. Vapour Shield WB will cure under water; hence ensure all equipment is not left soaking.

## PRECAUTIONS

- Some individuals may experience a skin reaction to Vapour Shield WB. Use appropriate protection equipment. Refer to our Material Safety Data Sheet for further information.
- Vapour Shield WB cure rates will be dramatically reduced if relative humidity is above 85%.
- Vapour Shield WB should not be diluted, Vapour Shield WB can be mixed with cement to become a patching mortar (contact manufacturer for further information).
- Do not apply to steel or metal surfaces as corrosion may occur.
- Vapour Shield WB is not a water proofing material, if the surface needs to be waterproofed a dedicated third party suppliers waterproofing membrane should be used in conjunction with Vapour Shield WB.
- Vapour Shield WB is not trafficable and must be covered with floor toppings, coatings or conventional coverings prior to foot and vehicular traffic being introduced.
- Allow to cure for a minimum of 24 hours at 25°C/50%RH before applying adhesives, mortar, decorative coatings or other surface treatments.
- In enclosed areas ventilation should be provided during the coatings curing cycle to allow for adequate evaporation of the coating.
- Vapour Shield WB will yellow and/or chalk when exposed to UV light.
- Discard all material that has exceeded the products recommended pot life or working times.
- Do not apply Vapour Shield WB over any existing coating or concrete treatment such as curing compound or release agents. All contaminants must be removed prior to the application of Vapour Shield WB.

Contact the manufacturer if one or more of the following conditions exist:

- The substrate is chalky or dusting.
- Ambient or substrate temperatures are below 10°C.

## APPLICATION TO COLD SUBSTRATES OR DURING COLD CLIMATES

- Vapour Shield WB cure rates are dramatically reduced when applying to a substrate surface or ambient air temperature below 10°C.
- Applying Vapour Shield WB to cold substrates or during cold climates can cause amine blush, resulting in an oily residue and/or areas of uncured tacky discolouration.
- If the above occurs or any other surface contamination or discolouration appears on the coating, the Vapour Shield WB should be allowed to cure and then washed with fresh clean water, methylated spirits or xylene depending on the severity of the amine blush.
- Ensure total removal of all contamination prior to the application of any further product.
- Any failure to follow the above procedure will result in delamination between coats.
- Strictly follow all mixing instructions.
- Allow mixed product to sit for five minutes to assist in accelerating the drying reaction.
- Do not apply thin coats as rapid moisture loss will arrest or slow the drying reaction.
- Always provide adequate ventilation during the curing cycle.

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## STORAGE

- Store Vapour Shield WB between 10°C and 30°C, away from direct sunlight.
- The shelf life is 12 months if stored in the products original unopened container.
- Partly used product must be sealed tight when not in use.

## FIRE

Product is non-flammable and poses no fire risk.

## SAFETY PRECAUTIONS

- Wear appropriate protective equipment, including clothing, gloves, appropriate respiratory mask and goggles.
- If poisoning occurs, contact doctor or Poisons Information Centre.
- If contact with skin occurs, remove contaminated clothing and thoroughly wash skin.
- If swallowed do not induce vomiting, give a glass of water.
- If in eyes, hold eyes open and flood with water for at least 15 minutes then see doctor immediately.
- For further information refer to the relevant Material Safety Data Sheet.

## WARRANTIES

CONPELL offers warranties when their systems are applied by accredited applicators. Please contact manufacturer for further information.

## IMPORTANT INFORMATION

The information and recommendations relating to Vapour Shield WB are given based on current knowledge and experience. Due to variances in material substrates and site conditions no warranties implied by law or, fit to purpose of the product can be implied. We accept no responsibility for loss or injury due to the incorrect handling or improper use of the product, limiting the cost of our liability to the replacement product cost only. Always refer to current Product Technical Data Sheets.

## CONPELL

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