

EcoPoxy MVB. Technical Data Sheet

Waterborne Epoxy Moisture Vapour Barrier and Primer.

DESCRIPTION

Ecopoxy® MVB is a two part waterborne epoxy coating system designed to act as a moisture and vapour barrier primarily over rigid cementitious substrates.

FEATURES AND BENEFITS

- ✚ Environmentally friendly.
- ✚ Water cleanup.
- ✚ Convenient equal part mixing.
- ✚ Non flammable.
- ✚ Negligible odour and toxicity.
- ✚ Excellent adhesion to brick, masonry, concrete, compressed fibreboard, stone and timber.

RECOMMENDED APPLICATIONS

- In-situ concrete
- Brick, block and stone work
- Fibre cement and AAC systems
- Pre cast and tilt up panels

TYPICAL PROPERTIES

Property	Result
Appearance	Uniform liquid
Colour	Grey
Finish	Semi Gloss
Specific Gravity	Approx 1.1 kg/l
Viscosity	Approx 25000 cps
Recoat Time	4 hour at 25°C
Full Cure	7 days at 25°C
Weight Solids	54 +/- 2%
Volume Solids	43 +/- 2%
Water Vapour Trans. (ASTM E96-05)	11.3 g/m ² /24hrs
VOC (APAS D181)	<10.0 g/ltr

PACKAGING

Ecopoxy® MVB is available in 4 litre, 8 litre, 20 litre and 400 litre kits as standard. Other sizes available on request.

COVERAGE RATES

As a Water Vapour Barrier	⇒	3-5 sqm/litre
As a concrete sealer	⇒	7-10 sqm/litre



APPLICATION DIRECTIONS

Surface Preparation.

All surfaces to be treated must be structurally sound and all previous coatings, adhesives, efflorescence or laitance should be removed by chipping, abrasive blast cleaning, high pressure water washing, mechanical scrubbing or other suitable means.

All surfaces must be cleaned free from dirt, grease, oil or other surface contaminants.

Holes, non-structural cracks and other surface deformities should be repaired using a Third Party product in accordance with the technical data sheets.

Very porous or “boney” concrete may require additional coats of **Ecopoxy® MVB**. The first coat acting as a primer, penetrating into the pores of the concrete.

Ensure recoat times are adhered to between applications (refer to precautions).

Mixing.

Mixing should be by means of a mechanical forced action mixer with a high shear stirrer.

Avoid trapping air during mixing as this may cause later pin holing in the coating during application.

Placing.

- The coverage rate as specified must be achieved to ensure adequate performance.
- Apply by low pressure spray. Successive coats should be applied at right angles to the previous coat.
- It is recommended that as application progresses, the coating depth be tested at random points with a wet film gauge/comb.

CLEAN UP

Wash all equipment in water or water/detergent immediately on completion of application.

PRECAUTIONS

- Some individuals may experience a skin reaction to **Ecopoxy® MVB**. Those individuals should wear personal protection equipment. Refer to our Material Safety Data Sheet for more information.
- Ecopoxy®MVBcure rates will be dramatically reduced if relative humidity is above 85%.
- Ecopoxy®MVBshould never be diluted.
- Do not apply to steel or metal surfaces, as corrosion will occur.
- Do not add cementitious products to **Ecopoxy® MVB**.
- In enclosed areas, such as water tanks or reservoirs, ventilation should be provided during curing cycle to enable adequate evaporation of the coating.
- 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.

COOL SUBSTRATES AND COOL CLIMATES

Ecopoxy® MVB curing rates will be dramatically reduced if substrate surface or ambient temperature is below +10°C.

If possible warm the substrate surface area where **Ecopoxy® MVB** is to be applied by air blower or use a blower after application.

Always provide adequate ventilation during the curing cycle.

STORAGE

Ecopoxy® MVB should be stored between 10°C and 30°C away from direct sunlight. Shelf life is 12 months in original unopened container. Partly used containers must be sealed tight when not in use.

FIRE

Ecopoxy® MVB is non-flammable and as such does not pose a fire risk.

WARRANTY

Illawarra Coatings offers a 10-year warranty on **Ecopoxy® MVB** when applied in accordance with the current Technical Data Sheet, and maintained in accordance with our current maintenance regime. Customers should refer to our full Warranty documentation for further information and conditions. This documentation is available on our website.

DISCLAIMER

The information, and, in particular, the recommendations relating to the application and end-use of Illawarra Coatings' products, are given in good faith based on Illawarra Coatings' current knowledge and experience of the products when properly stored, handled and applied under normal conditions.

It is your responsibility to ensure that our products meet your requirements, are used and handled correctly in accordance with any applicable Australian Standard, our instructions and recommendations and only used for the applications for which they are intended.

In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.

We also reserve the right to update information without prior notice to you to reflect our ongoing research and development.

The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with these.

regime. Customers should refer to our full Warranty documentation for further information and conditions. This documentation is available on our website.