



# FLOORBOND MCWB EPOXY

### Description

Floorbond MCWB Epoxy is a waterbased 2-part, single-coat, epoxy moisture vapour controller with fast drying and over-coating properties. It has been specially formulated to be applied to damp and new concrete with a moisture vapour emission rate of <math><0.12\text{kg/m}^2</math> per 24 hours. Floorbond MCWB Epoxy has been formulated to be used in conjunction with Floorbond XMS timber flooring adhesive in applications where a moisture vapour controller is required.

### Benefits

- Single-coat application for fast turnaround time
- Can be over-coated with Floorbond XMS after 6 hours @23C
- Waterbased, easy clean up with water
- No priming required
- Application at up to 85% relative humidity
- Low VOC (Green Star compliant)

### Uses

- Moisture controller under hybrid timber flooring adhesive to control the rate of moisture transmission and reduce the risk of timber failure/cupping

### Compatible Substrates

|          |                 |
|----------|-----------------|
| Concrete | Cement Sheeting |
|----------|-----------------|

### Coverage

Floorbond MCWB Epoxy should be applied at the rate of 5 square meters per litre to obtain optimum moisture vapour control, with an 8L kit of Floorbond MCWB Epoxy yielding approximately 40m<sup>2</sup> coverage. Care should be taken to ensure there are no pinholes in the film on application. Any pinholes should be patched manually prior to flooring adhesive being applied. Mechanical fixings that are inserted when the timber flooring is installed (top nail or secret nail) should not be removed at any time as this can create holes in the vapour barrier.

### Performance Data

| Property                | Data                                       |
|-------------------------|--|
| Specific Gravity        | ca. 1.10 mixed                             |
| Volume Solids           | ca. 43%                                    |
| Application Temperature | +10C - + 35C                               |
| Overcoat Time           | 6 hours @ 23C                              |
| WVTR (ASTM E-96)        | ca. 16.5 g/m <sup>2</sup> /24 hours        |
| VOC                     | 45.3g/L (1168 method)                      |
| Storage                 | Store in a cool, dry place out of sunlight |
| Shelf Life              | 12 months unopened                         |

### Limitations

- For internal use only
- Do not dilute product
- Floorbond MCWB Epoxy is not a waterproofing or anti-fracture membrane
- Not suitable for use in bridging expansion joints
- Do not apply at temperatures below 10C or above 35C

## Our Focus is Clear. Perfecting Adhesives.

IMPORTANT: Information, specifications, procedures and recommendations provided ("information") are based on our experience and we believe this to be accurate. No representation, guarantee or warranty is made as to the accuracy or completeness of the information or that use of the product will avoid losses or damages or give desired results. It is purchaser's sole responsibility to test and determine the suitability of any product for the intended use. Tests should be repeated if materials or conditions change in any way. No employee, distributor or agent has any right to change these facts and offer a guarantee of performance.

**NOTE TO USER:** by ordering/receiving product you accept the H.B. Fuller General Terms and Conditions of Sale applicable in the region. Please request a copy if you have not received these. These Terms and Conditions contain disclaimers of implied warranties (including but not limited to disclaiming warranties of fitness for a particular purpose) and limits of liability. All other terms are rejected. In any event, the total aggregate liability of H.B. Fuller for any claim or series of related claims however arising, in contract, tort (including negligence), breach of statutory duty, misrepresentation, strict liability or otherwise, is limited to replacement of affected products or refund of the purchase price for affected products. H.B. Fuller shall not be liable for loss of profit, loss of margin, loss of contract, loss of business, loss of goodwill or any indirect or consequential losses arising out of or in connection with product supply.

Nothing in any term shall operate to exclude or limit H.B. Fuller's liability for fraud, gross negligence or for death or personal injury caused by negligence or for breach of any mandatory implied terms.

**Australia**  
Tel: +61 1800 423 855  
customer.service@hbfuller.com  
**China & Hong Kong**  
Tel: +86 20 82068291  
cs.china@hbfuller.com  
**Indonesia**  
Tel: +62-21-5307232/33

**Korea**  
Tel: +82 2 786 8296  
cskorea@hbfuller.com  
**Malaysia**  
Tel: +603 3345 5200  
**New Zealand**  
Tel: +64 800 555 072  
customer.service@hbfuller.com

**Philippines**  
Tel: +63 2 5194073  
**Taiwan**  
Tel: +886 2 26033385  
**Thailand**  
Tel: +66 2 3757442  
**Vietnam**  
Tel: +84 8 2225588



- Do not use where hydrostatic pressure conditions exist
- Some individuals may experience a skin reaction to Floorbond MCWB Epoxy. Those individuals should wear appropriate personal protective equipment. Refer to Safety Data Sheet (SDS) for further information/advice
- Floorbond MCWB Epoxy should never be diluted or have any additive added to it
- Do not apply to steel or metal surfaces as corrosion will occur
- Do not apply over any substrates that have been previously treated or coated with curing compounds, PVA concrete bonding agents or acrylic coatings. These must all be mechanically removed by grinding or shot blasting to produce a contaminant-free surface prior to application of Floorbond MCWB Epoxy
- Floorbond XMS must be applied within 72 hours of application of Floorbond MCWB, otherwise another coat of Floorbond MCWB is required prior to Floorbond XMS application

### Concrete Moisture Vapour Emission Testing

Before applying Floorbond MCWB Epoxy, testing must be conducted to assess the relative humidity (Moisture Vapour Emission Rate) of the concrete substrate. Approved methods include ASTM F2170 to determine the relative humidity of the concrete, or ASTM F1869 to determine the Moisture Vapour Emission Rate (MVER).

### Surface Preparation

All substrates must be structurally sound and free from any contaminants that may inhibit bond, such as dirt, grease, oils, dust, paint,

sealers, floor finishes, curing compounds etc. Weak or contaminated surfaces must be removed.

### Surface coatings EG gypsum plaster, existing paint, adhesives etc

Visual inspection of the surface is required to note the type and location of any contamination. First scrape off any loose material/lumps, then use an appropriate cleaning method depending on the type of contaminant:

- Gypsum plaster and joint compound – Scrub with warm water and detergent to remove material. Thoroughly rinse off residue then allow the surface to completely dry before continuing
- Paint – Chemical strippers should not be used to remove paint from the surface. If paint cannot be easily removed by scraping it must be removed mechanically
- Adhesive – Scrape off adhesive from the surface, then remove remaining adhesive via mechanical means
- Holes, non-structural cracks and other surface deformities should be repaired using a product specified for that application
- Very porous or 'boney' concrete may require 2 coats of Floorbond MCWB Epoxy. The first coat acting as a primer, penetrating into the pores of the concrete

### Weak concrete top layer (laitance) or damaged concrete EG spalling, scaling, delaminating or crumbling

Weak or damaged concrete must be removed by mechanical means. Do not acid wash the concrete

## Our Focus is Clear. Perfecting Adhesives.

IMPORTANT: Information, specifications, procedures and recommendations provided ("information") are based on our experience and we believe this to be accurate. No representation, guarantee or warranty is made as to the accuracy or completeness of the information or that use of the product will avoid losses or damages or give desired results. It is purchaser's sole responsibility to test and determine the suitability of any product for the intended use. Tests should be repeated if materials or conditions change in any way. No employee, distributor or agent has any right to change these facts and offer a guarantee of performance.

**NOTE TO USER:** by ordering/receiving product you accept the H.B. Fuller General Terms and Conditions of Sale applicable in the region. Please request a copy if you have not received these. These Terms and Conditions contain disclaimers of implied warranties (including but not limited to disclaiming warranties of fitness for a particular purpose) and limits of liability. All other terms are rejected. In any event, the total aggregate liability of H.B. Fuller for any claim or series of related claims however arising, in contract, tort (including negligence), breach of statutory duty, misrepresentation, strict liability or otherwise, is limited to replacement of affected products or refund of the purchase price for affected products. H.B. Fuller shall not be liable for loss of profit, loss of margin, loss of contract, loss of business, loss of goodwill or any indirect or consequential losses arising out of or in connection with product supply.

Nothing in any term shall operate to exclude or limit H.B. Fuller's liability for fraud, gross negligence or for death or personal injury caused by negligence or for breach of any mandatory implied terms.

**Australia**  
Tel: +61 1800 423 855  
customer.service@hbfuller.com  
**China & Hong Kong**  
Tel: +86 20 82068291  
cs.china@hbfuller.com  
**Indonesia**  
Tel: +62-21-5307232/33

**Korea**  
Tel: +82 2 786 8296  
cskorea@hbfuller.com  
**Malaysia**  
Tel: +603 3345 5200  
**New Zealand**  
Tel: +64 800 555 072  
customer.service@hbfuller.com

**Philippines**  
Tel: +63 2 5194073  
**Taiwan**  
Tel: +886 2 26033385  
**Thailand**  
Tel: +66 2 3757442  
**Vietnam**  
Tel: +84 8 2225588



**Curing compounds / sealers and burnished / polished concrete**

In applications where the concrete substrate is shiny, burnished or suspected of containing an additive such as a curing compound or sealer, apply water droplets to the concrete surface. If the droplets are not absorbed into the concrete within 60 seconds then the substrate surface must be removed by mechanical means prior to application of Floorbond MCWB Epoxy.

**Product mixing and Application**

Pour resin contents into hardener pail and mix until completely homogenous using a mechanical forced action mixer with a high shear stirrer. Avoid trapping air in the product when mixing as this can cause pinholes during application. Apply Floorbond MCWB Epoxy using a foam or nap roller at a rate of 5 square meters per litre. A brush can also be used to apply Floorbond MCWB Epoxy along skirting boards, walls and underneath door frames. Ensure that all depressions, voids and pinholes are completely filled otherwise moisture vapour suppression will be compromised. Apply additional Floorbond MCWB Epoxy to completely fill any voids and pinholes.

Floorbond MCWB Epoxy has a working time of approximately 25-30mins @ 23C. If pinholes are noticed after the product has begun to skin, additional Floorbond MCWB Epoxy can be applied on top of existing product without compromising bond or vapour transmission performance.

Floorbond MCWB Epoxy is able to be over-coated with Floorbond XMS after approximately 6 hours @ 23C. Ensure

Floorbond MCWB Epoxy has completely skinned and is hard enough that working a trowel across the surface does not break the continuous film. Breaking the film will compromise the vapour transmission properties. If mechanical fastenings are used in conjunction with Floorbond XMS to lay the timber flooring, these mechanical fastenings should not be removed at any point in time, as their removal can create holes in the vapour barrier than could compromise vapour transmission properties. Mechanical fastenings should be used as per manufacturers recommendation.

**Curing**

Floorbond MCWB Epoxy will develop excellent bond strength within 24 hours upon application of Floorbond XMS as a system, with full cure properties generally taking 7 days. Lower temperatures will increase the time taken to be able to over-coat Floorbond MCWB Epoxy, and to develop full-cure bond properties with Floorbond XMS.

Floorbond MCWB must be overcoated with Floorbond XMS within 72 hours of application. If longer than 72 hours is experienced, a further coat of Floorbond MCWB is required to be applied prior to application of Floorbond XMS.

**Shelf Life**

12 months unopened. Unused product can be re-sealed within the container and is suitable for use for 6 months after opening.

**Our Focus is Clear. Perfecting Adhesives.**

IMPORTANT: Information, specifications, procedures and recommendations provided ("information") are based on our experience and we believe this to be accurate. No representation, guarantee or warranty is made as to the accuracy or completeness of the information or that use of the product will avoid losses or damages or give desired results. It is purchaser's sole responsibility to test and determine the suitability of any product for the intended use. Tests should be repeated if materials or conditions change in any way. No employee, distributor or agent has any right to change these facts and offer a guarantee of performance.

**NOTE TO USER:** by ordering/receiving product you accept the H.B. Fuller General Terms and Conditions of Sale applicable in the region. Please request a copy if you have not received these. These Terms and Conditions contain disclaimers of implied warranties (including but not limited to disclaiming warranties of fitness for a particular purpose) and limits of liability. All other terms are rejected. In any event, the total aggregate liability of H.B. Fuller for any claim or series of related claims however arising, in contract, tort (including negligence), breach of statutory duty, misrepresentation, strict liability or otherwise, is limited to replacement of affected products or refund of the purchase price for affected products. H.B. Fuller shall not be liable for loss of profit, loss of margin, loss of contract, loss of business, loss of goodwill or any indirect or consequential losses arising out of or in connection with product supply.

Nothing in any term shall operate to exclude or limit H.B. Fuller's liability for fraud, gross negligence or for death or personal injury caused by negligence or for breach of any mandatory implied terms.

**Australia**  
Tel: +61 1800 423 855  
customer.service@hbfuller.com  
**China & Hong Kong**  
Tel: +86 20 82068291  
cs.china@hbfuller.com  
**Indonesia**  
Tel: +62-21-5307232/33

**Korea**  
Tel: +82 2 786 8296  
cskorea@hbfuller.com  
**Malaysia**  
Tel: +603 3345 5200  
**New Zealand**  
Tel: +64 800 555 072  
customer.service@hbfuller.com

**Philippines**  
Tel: +63 2 5194073  
**Taiwan**  
Tel: +886 2 26033385  
**Thailand**  
Tel: +66 2 3757442  
**Vietnam**  
Tel: +84 8 2225588

**Clean Up**

Floorbond MCWB Epoxy is waterbased and can be cleaned up prior to curing with water. Once cured it can be removed by mechanical means.

**Safety Information**

This product is considered hazardous under the classification of GHS WHS Version 3. Further safety information is available on the product SDS. Avoid contact with skin and eyes. Store in a dry place below 30°C. Keep out of reach of children. An SDS is available from the H.B. Fuller representative in your state, HB Fuller Australia customer service, or downloadable from the HB Fuller web site, [www.hbfuller.com.au](http://www.hbfuller.com.au).

**Disclaimer**

This technical data sheet summarises at the date of issue to the best technical knowledge of HB Fuller Australia. Since HB Fuller Australia cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this technical data sheet in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. Our responsibility for the products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Version 3  
TDS Date: 25/11/2020

**Our Focus is Clear. Perfecting Adhesives.**

IMPORTANT: Information, specifications, procedures and recommendations provided ("information") are based on our experience and we believe this to be accurate. No representation, guarantee or warranty is made as to the accuracy or completeness of the information or that use of the product will avoid losses or damages or give desired results. It is purchaser's sole responsibility to test and determine the suitability of any product for the intended use. Tests should be repeated if materials or conditions change in any way. No employee, distributor or agent has any right to change these facts and offer a guarantee of performance.

**NOTE TO USER:** by ordering/receiving product you accept the **H.B. Fuller General Terms and Conditions of Sale** applicable in the region. Please request a copy if you have not received these. These Terms and Conditions contain disclaimers of implied warranties (including but not limited to disclaiming warranties of fitness for a particular purpose) and limits of liability. All other terms are rejected. In any event, the total aggregate liability of H.B. Fuller for any claim or series of related claims however arising, in contract, tort (including negligence), breach of statutory duty, misrepresentation, strict liability or otherwise, is limited to replacement of affected products or refund of the purchase price for affected products. H.B. Fuller shall not be liable for loss of profit, loss of margin, loss of contract, loss of business, loss of goodwill or any indirect or consequential losses arising out of or in connection with product supply.

Nothing in any term shall operate to exclude or limit H.B. Fuller's liability for fraud, gross negligence or for death or personal injury caused by negligence or for breach of any mandatory implied terms.

**Australia**  
Tel: +61 1800 423 855  
customer.service@hbfuller.com  
**China & Hong Kong**  
Tel: +86 20 82068291  
cs.china@hbfuller.com  
**Indonesia**  
Tel: +62-21-5307232/33

**Korea**  
Tel: +82 2 786 8296  
cskorea@hbfuller.com  
**Malaysia**  
Tel: +603 3345 5200  
**New Zealand**  
Tel: +64 800 555 072  
customer.service@hbfuller.com

**Philippines**  
Tel: +63 2 5194073  
**Taiwan**  
Tel: +886 2 26033385  
**Thailand**  
Tel: +66 2 3757442  
**Vietnam**  
Tel: +84 8 2225588