



#### Distributor

Allsource Supply Inc.  
2752 Vinland Street  
Oshkosh, WI 54901  
833-663-4255

**Hardbond Vapor Moisture Barrier (MVB) fast cure is an epoxy primer engineered to deliver superior moisture resistance with an added benefit of quick drying in just three hours, making it an ideal choice for one-day systems. This high-performance coating is 3rd party certified which makes it an effective solution to create a barrier against moisture, promoting optimal adhesion, and long-lasting protection.**

#### UNIQUE ADVANTAGES

- ASTM E96 certified with less than 0.1perm rate
- Quick 3 hours drying time
- High resilience to humidity
- Optimal adhesion to fresh and old concrete
- Cures at temperatures just above freezing
- Solvent-free
- Easy squeegee and roller application
- Excellent concrete penetration and bonding

#### PROVEN INDUSTRIES

- High humidity environments
- Industrial shops
- Garages
- Basements
- Car washes or wash bays

# TDS SHEET / HARDBOND MVB

## PACKAGING

3 US gal ready mix

### Mix Ratio:

By Volume: **2 components, 2:1 ratio**  
**(2 Parts A : 1 Part B)**

By Weight: **200:150**

**Recommended Thickness:** Primer

16 mils (100 ft<sup>2</sup>/gal)

**Pot Life 16oz (454 G):** 10 minutes @ 77°F (25°C)

12 months in original unopened factory sealed containers. Keep away from extreme cold, heat or moisture. Keep out of direct sunlight and away from fire hazards.

## TECHNICAL DATA

*Data and time were measured in a controlled environmental condition (20°C/68°F and 50%R.H) to ensure accuracy and reliability. Be aware that values may fluctuate depending on the surrounding environment.*

*The indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material to cover the same mileage.*

	PART A	PART B	MIX
<b>SOLIDS CONTENT, BY VOLUME - CLEAR</b>	100%	100%	100%
<b>SOLIDS CONTENT, BY WEIGHT - CLEAR</b>	100%	100%	100%
<b>DENSITY (KG/L)</b>	1.15	0.97	1.09
<b>THINNER RECOMMENDED</b>	None		
<b>DRYING TIMES</b>			
<b>TACK-FREE</b>	2-3 hours		
<b>RECOAT TIME</b>	Within 24 hours		
<b>FOOT TRAFFIC</b>	4 hours		
<b>HEAVY EQUIPMENT TRAFFIC</b>	24 hours		
<b>FULL CURE</b>	4-7 days		
<b>ABRASION RESISTANCE, ASTM D4060 TABER ABRASER CS-17 WHEEL / 1000G (2.2 LBS) / 1000 CYCLES</b>	NA		
<b>ADHESION, ASTM D4541</b>	Concrete-primer : > 550 psi (substrate failure)		
<b>WATER ABSORPTION, ASTM D570</b>	NA		
<b>WATER VAPOUR TRANSMISSION, ASTM E96</b>	< 0.1 perm		
<b>HARDNESS (SHORE D), ASTM D2240</b>	70		
<b>FLEXIBILITY, 1/8" MANDREL, ASTM D1737</b>	NA		
<b>FALLING SAND ABRASION RESISTANCE (L SAND/ 1 DRY MIL), ASTM D968</b>	NA		
	PART A	PART B	MIX
<b>VISCOSITY @ 77°F (25°C)</b>	3500-5000 CPS	400 - 600 CPS	1500 – 2000 CPS
<b>GLOSS, ASTM D523</b>	95+		

## SHELF LIFE

### CONCRETE PREPARATION

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#### Old Concrete:

Concrete surface must be cleaned. BLASTRAC, sand blasting, diamond grinder w/30 grit or coarse, or water blasting is highly recommended to remove surface contaminants. Any oils and fats must be removed prior to product application. Acid etching may be required (followed by a thorough rinsing) to open the pores of the concrete to accept a primer. Do not apply to wet substrates. Chloride, moisture, and pH levels should be checked prior to application.

#### New Concrete:

The concrete should be allowed to cure for a minimum of 30 days. Compression resistance of concrete must be at least 25 MPa (3625 lb/inch<sup>2</sup>) after 28 days and traction resistance must be at least 1,5 MPa (218 lb/in<sup>2</sup>). BLASTRAC, sand blasting, diamond grinder w/30 grit or coarser or acid etching (followed by a thorough rinsing) is required to remove the surface laitance that appeared during the curing process.

### MIXING INSTRUCTIONS

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Mix part A and part B in a 2:1 using a clean and dry mixing pail. Stir gently; avoid over-mixing or creating a vortex that could introduce moisture. Do not mix below the dew point, which will shorten the pot life. No induction time is required prior to use.

Warning: Large masses of mixed and/or heated material will have a shorter pot-life. Do not apply in direct sunlight when temperatures and humidity are high.

### APPLICATION INSTRUCTIONS

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Hardbond MVB is specially formulated to effectively bond to damp concrete substrates with up to 100% residual humidity, as well as to new concrete slabs installed within 30 days. Excessive humidity levels may indicate a hydrostatic pressure issue, typically caused by drainage failure or water leaks. Prior to installation, ensure that the underlying causes of hydrostatic pressure are addressed first.

The moisture vapor barrier properties are directly linked to the thickness of the coating. We recommend a thickness of 16mils for optimal performance. Vapor barrier protection increases with thicker and uniform thickness across the covered surface.

Using pigment dispersion or flakes directly in or over the Hardbond MVB may reduce the performance of the coating. If a colored coating is necessary, we recommend applying an unpigmented coat at 8 to 10 mils as a primer and wait for it to dry. Then use Hardbond MVB with PurEpoxy Universal pigment dispersion at 10 mils. The same application process can be achieved for a flake system instead of using pigment dispersion.

Hardbond MVB has been evaluated in a third-party lab for moisture resistance and adhesion to concrete and successfully passed ASTM E96 standards. It's essential to consider that variations in storage, mixing, and application methods could impact performance in real-world applications.

This product can be applied at various thicknesses, and a thicker film might cure faster than the indicated curing time. Temperature also affects curing; low temperatures will reduce curing speed, while high temperatures will significantly decrease working time and curing time. Leaving mixed material in a pail for too long can cause an exothermic reaction.

### CLEANING

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Clean all application equipment with a specified cleaner. Once the material hardens it can only be removed mechanically. If the product splatters, wash thoroughly with hot soapy water.

### OVERLAP

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Subsequent overlaps must be applied within the first 24 hours. Past that window, the floor needs to be sanded or abraded uniformly. Porous substrates may require multiple priming.

### RESTRICTION

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## TDS SHEET / HARDBOND MVB

- Minimum/Maximum temperature of substrate: 42°F / 86°F (5°C 30°C)
- Substrate temperature must be at least 5.5°F (3°C)
- Protect from humidity, condensation and contact with water during the 24-hour initial curing period. Overlaps must be applied within the first 24 hours. Past that window, the floor needs to be sanded or abraded uniformly. Porous substrates may require multiple priming.

### HEALTH AND SAFETY

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In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. For more information, consult the material safety data sheet.

Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Predict suitable ventilation.

\*Consult the Safety Data Sheet for further information.

### SLIP RESISTANCE

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Allsource Supply Inc. recommends the use of traction additives in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor's and end users' responsibility to select and provide a flooring system that meets current safety standards. Allsource Supply Inc. makes no claims of longevity of SCOF or DCOF results. Allsource Supply Inc. will not be responsible for injury incurred in a slip and fall accident.

### MAINTENANCE INSTRUCTIONS

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After completing the application of Hardbond MVB, routine sweeping, mopping, washing and mechanical scrubbing is recommended. Plain water is ideal for most environments. Use pH neutral cleaners if/where necessary. The installer should provide the owner with maintenance instructions. Clean and rinse thoroughly if floors become slippery due to animal fats, oil, grease, or soap film.

### WARRANTY

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Allsource Supply Inc. products are warranted to be of uniform quality within manufacturing tolerances. Since no control is exercised over product use, no warranty, expressed or implied, is made to the effects of such use. The seller and manufacturer's obligations under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective. Contact Allsource Supply Inc. for more information.