



## FW-100 Air & Water Barrier, Vapor Retarder for Frame Wall Surfaces

### Product Description

Wall Guardian FW-100 is a one-component liquid applied, asphaltic based, elastomeric, air and water barrier, vapor permeable (breathable/retarder).

### Basic Use

To provide a vapor permeable air and water barrier on construction surfaces such as gypsum board, sheathing, plywood, CMU and other construction surfaces.

### Limitations

Apply at temperatures over 40°F (10°C). Do not apply when rain is forecast within the next 12 hours.

### Technical Data

Vehicle Base	Polymer Modified Asphalt
Water Vapor Permeance	11.6 perms
Weight per Gallon	8.6 lbs
Solids by Weight	59 % +/- 2%
Solids by Volume	58% +/- 2%
Elongation @ break	90%
Tensile Strength	29 psi
Dry Time	
Sets to Touch	4 – 6 hours
Recoat	24 hours
VOC g/L	< 10
Exposure	6 months
Solvent	Mineral Spirits
Clean up	Mineral Spirits

### Air Barrier Properties at 26.7 ft<sup>2</sup>/gallon

Bond Strength to Concrete, FL Bldg Code TAS 114, Appendix H Sec 2	>1000 lb
Sag/Flow ASTM D4586	None @ 240°F
Air Rate Leakage ASTM E283	None
Air Permeance ASTM E2178 (SCFM/ ft <sup>2</sup> ) 30mil dry thickness @ ΔP = 0.3 in water	.0001
<b>FULL SCALE WALL TESTING</b> <b>ASTM 2357</b> <b>System Air Leakage</b>	Required .04 CFM/ft <sup>2</sup> <b>Results .0004 CFM/ ft<sup>2</sup></b>
<b>Penetration Check</b>	Required .045 CFM/ ft <sup>2</sup> <b>Results PASS</b>

### Surface Preparation

All surfaces must be cleaned. Remove all dirt, debris, and any contamination which could prevent proper adhesion.

### Joint and Crack Treatment

Joints between panels of exterior grade gypsum, plywood and rigid insulation up to 1/4" wide shall be filled with a 1/16" x 3/4" cap bead application of GreatSeal LT-100 Liquid Tape. Joints between panels wider than 1/4" must be sealed with 4" wide UT-40 Universal Tape.

Surfaces should be flashed in with beams, columns, window and doorframes, etc.: using UT-40 Tape lapped a minimum of 2" on both substrates. Mechanical attachment should be made to all window and doorframes, or a properly designed sealant joint provided.

### Application

FW-100 may be applied with heavy brush, rollers, heavy-duty spray equipment or spreaders on a completely dry surface. FW-100 may be applied in a single coat. **In all cases FW-100 must be vigorously stirred prior to application.** Mark areas off and ensure that the appropriate volume has been applied over each area. During spraying, the product should be applied in horizontal strokes, then vertical strokes in a cross-hatch method to ensure even application.

### Coverage Rates

- RESIDENTIAL Frame Wall**  
Requires an application rate of 3.75 gallons per 100 ft<sup>2</sup> (26.5 feet per gallon) or 60 mils wet film thickness over OSB, plywood, Dens Glass Gold or any exterior gypsum sheathing after sheathing joints are treated with LT-100.
- COMMERCIAL Frame Wall**  
Requires a minimum of 3.75 gallons per 100 ft<sup>2</sup> or 60 mils wet film thickness after the non-insulating sheathing joints are treated with LT-100.

### 3. CMU Construction

Minimum of 3.75 gallons per 100 ft<sup>2</sup> or 60 mils wet film

### Technical Services

Technical advice on use of material for specific application and end-use requirements is available from the manufacturer. Material Safety Data Sheet (MSDS) should be consulted for further information. This product is for industrial and professional use only.

### Packaging

55 gallon drums (208.2 liters)

5 gallon pails (18.9 liters)

### Warranty

This product is manufactured of good materials and by competent workmen. Seller's and manufacturer's only obligations shall be to replace such quantity of product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising from the use or the inability to use the product. Before using, user shall determine the suitability of the product for his/her intended use; and user assumes all risk and liability.

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