



FW-100

Frame Wall Air Barrier

Product Description

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

Basic Use

To provide a vapor permeable air and water barrier and vapor retarder on construction surfaces such as gypsum board, sheathing, plywood, and other construction surfaces. The use of FW-100 on CMU walls is also acceptable when the FW-100 is covered by extruded polystyrene.

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.....	Asphalt
Water Vapor Permeance; perms.....	11.6
Weight per Gallon.....	(approx.) 8.6 lbs.
Solids by Weight.....	59 ± 2%
Solids by Volume.....	58 ± 2%
Elongation@break.....	>90%
Tensile Strength psi.....	29
Dry Time	
Sets to Touch.....	4-6 hours
Recoat.....	24 hours
Exposure.....	6 months
Solvent.....	Mineral Spirits
Clean Up.....	Mineral Spirits

Air Barrier Properties at 26.7 ft²/gallon

Sag/Flow – ASTM D4586.....	none @ 180°F
Air Rate Leakage – ASTM E283.....	none
Bond Strength to Concrete, FBC (FL Bldg Code) TAS 114, Appendix H, Sec 2.....	> 1000 lb
Structural Performance, TAS 114 performed Moisture Vapor Permeance after 250 hrs QUV (ASTM E96, Method B).....	20.5 perms

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 ¼" wide shall be filled with a trowel application of FW-100 and reinforced with

a strip of 2" wide glass fiber tape prior to application of liquid membrane or the application GreatSeal LT-100 Liquid Tape. Joints between panels wider than ¼" must be sealed with 2" wide WT-250 Tape.

Surfaces should be flashed in with beams, columns, window and doorframes, etc.: using WT-250 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. 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

1. RESIDENTIAL Frame Wall
 - a. With an outboard insulation of a minimum of ½" extruded polystyrene, a minimum of 2.5 gallons per 100 ft² after the non-insulating sheathing joints are treated.
 - b. No outboard insulation requires an application rate of 3.75 gallons per 100 ft² over OSB, plywood, Dens Glass Gold.
2. COMMERCIAL Frame Wall
 - a. With an outboard insulation of a minimum of 1" ASTM C 578 Type X extruded polystyrene, a minimum of 3 gallons per 100 ft² after the non-insulating sheathing joints are treated.
 - b. No outboard insulation requires a minimum of 3.75 gallons per 100 ft² after the non-insulating sheathing joints are treated.
3. STUCCO or EIFS Frame Wall

With an outboard insulation board of a minimum of 0.75" Dow Quik R, a minimum of 2.5 gallons per 100 ft² after the non-insulating sheathing joints are treated.

4. CMU Construction

Must use an ASTM C 578 Type IV or X outboard insulation 1' thick and a minimum of 3.75 gallons per 100 ft²

Note: Coverage may vary depending on the actual condition of the surface. The coverage rate shown is intended as minimum average application recommendations.

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.