



# Blue Barrier™ Liquid Wrap 2300

## Product Information Sheet

Poly Wall® Building Solutions is an innovator of high-quality, cost-effective, engineered building materials. We stand behind our brand promise — **Moisture and Air Stop Here®**. Visit our website at [www.poly-wall.com](http://www.poly-wall.com) for the full array of product offerings.

### DESCRIPTION

Poly Wall® Blue Barrier™ Liquid Wrap 2300 is a spray applied, fully adhered, permeable, air and moisture building envelope protection membrane. This thin mil, seamless substrate coating can be applied with an approved airless sprayer or power rolled. Liquid Wrap can be sprayed over surfaces and substrates such as OSB, plywood or exterior gypsum that have been prepared per the Poly Wall Blue Barrier Application Guides.

### ADVANTAGES

- Single-component application/no primer required
- Biological growth resistance/does not provide a food source for biological growth, such as mold
- Great replacement for housewrap products/fluid-applied materials can offer an embedded adhesion (bond) into the wall substrate material, versus a sheet-applied material which typically offers only surface adhesion properties
- Exceptional adhesion/Bonds well to select above-grade substrates; including Gypsum, CMU block, concrete, and (untreated) OSB or Plywood sheathings
- Low VOC/UV resistant
- Wet surface application/Bonds and cures over damp above-grade wall substrates clear of detectable surface water, frost, ice, or snow
- **PERMEABLE**/Allows substrates to breathe

### WHY USE POLY WALL® BLUE BARRIER™ LIQUID WRAP 2300

- 60 years of successful waterproofing experience
- When utilized with our Blue Barrier 2200 Joint Filler combines to fill in voids up to 3/4" due to penetrations or dissimilar surfaces
- Stands up to 6 months of UV exposure
- Works as a complete system with our Blue Barrier 2400 Flash 'N Wrap Window and Door Fluid applied Flashing
- Can be covered with commonly used cladding/siding systems including heavy veneers
- Same technology has been used in Commercial Construction for years
- Compliant with several NFPA 285 wall assemblies

### STORAGE

12 months from manufacture date. Store between 32°F and 80°F.

### LIMITATIONS

- Not designed or approved for below-grade waterproofing applications.
- Not approved for application over Insulated Concrete Form (ICF) substrates.
- Apply as packaged. Do not dilute or alter.
- Properly dispose of any roller covers and brushes as they will not be reused or cleaned.
- If you used the plastic trowel or putty knife allow residue product on tools to cure / dry, and then and peel off for the next use.
- When not dispensing the product, cover the bucket with a lid to ensure the product is the viscosity you want. Prior to re-setting the lid linder, spray a nitrogen blanket to stop the material from prematurely curing. This type of product can be found in "Key Board Cleaner" at office supply stores. Just 2-3 short burst per application is all you need.
- For optimum results, we recommend this product be applied in 40°F and rising temperatures. However, you likely (depending on RH) can apply is down to 25°F. Test a small area to determine how it works on a given day when the temp is less than 40°.
- Stains from substrate may transfer due to permeability of product but will not alter performance of product.
- Due to the wide variety and composition of substrates, always test a small area of wall substrate to validate desired result.
- When bonding to surfaces, ensure the surface is clean from dust; debris; and any other coatings, membranes, or membrane residue.
- Not recommended for use over wood products treated with Disodium Octaborate Tetrahydrate (DOT), commonly known as Borate or SBX, and Chromated Copper Arsenate (CCA).
- Completely cover Blue Barrier Liquid Wrap 2300 within (6) months to properly protect from deterioration due to Sun / UV exposure.



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INFORMATION SHEET  
REGARDING POLY WALL  
BLUE BARRIER 2400 & HOW TO  
FLASH A WINDOW & DOOR.**



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**LIMITED WARRANTY:** Poly Wall Building Solutions will replace F.O.B. Ennis, TX, any material with manufacturing defects which cause leaks for a period of 1 year from date of purchase. Poly Wall Building Solutions will not be liable for any other claims or damages, whether direct or indirect, including consequential damages or incidental damages.

## Blue Barrier™ Liquid Wrap 2300

### TYPICAL PROPERTIES - Cured Properties at 21 days

NFPA 285	Compliant under many wall assemblies
Hardness, Shore A	40-45
Tensile Strength	90-100 psi
Elongation	225-300%
Tear Strength	50-60 psi
Perm Rating	15 Perms
UV Exposure	6 Months
Solids Content	90% Solids

### Uncured Properties

Tack Free Time	<60 minutes
Cure Rate	1/8" - 16hrs.
VOC Content	<20grams/liter

Note: Cure rates will vary based upon the relative humidity of the application environment.

SIZE	PART NUMBER
5 Gallon Pail	PWBB.2300.LW.5

### COVERAGE

69 SF / Gal @ 23 mils wet\*

\*Coverage rates will vary depending on substrate porosity.



# INSTALLATION GUIDELINES FOR POLY WALL® BLUE BARRIER™ LIQUID WRAP 2300 USED AS AN AIR BARRIER

The installation guidelines provided below are not intended to be full and complete application instructions.

For full air barrier application instructions scan here



## STEP 1 - Clean & Prepare the Substrate

- Clean surfaces free of debris, sawdust, contaminants, oils, etc.
- In severe cases power wash off debris carefully so not to harm substrates such as OSB.
- Substrate can be damp to touch and Blue Barrier will stick.
- For high porosity wall substrate surfaces, like high porosity CMU block, a thin cementitious 'parge' coat may be required to seal the porous material prior to Poly Wall application to obtain the listed Poly Wall coverage rate (yield) included in this literature. An alternative is to provide additional Poly Wall Blue Barrier Liquid Wrap 2300 material to completely cover more porous substrate wall surfaces.
- Voids in joints, holes and irregular surfaces up to 3/4" can be filled with Poly Wall Blue Barrier Joint Filler 2200 applied with a caulking gun and strike smooth with a putty knife/trowel.
- For voids in excess of 3/4" install a closed cell backer rod per manufacturer's instructions or spray urethane expanding foam in the void.

## STEP 2 - Penetration Treatment

- Scuff up plastic penetrations such as pipes with sand paper to ensure a good bond with the fluid applied detailing products.
- If you have gaps or voids exceeding 3/4" around the penetrations fill with closed cell backer rod or closed cell urethane expanding foam.
- Caulk the penetration with Poly Wall Blue Barrier Joint Filler 2200 applied at a minimum 35 mils wet (46 SF / Gal coverage rate) as a continuous film put on with caulk gun, plastic trowel, or putty knife; being sure to carry it a minimum 3" onto each surface at the change in plane on the penetration itself, and then tool the product for proper adhesion. Allow it to set up for approximately 1 hour (based on ambient temperature and humidity).
- Apply Poly Wall Blue Barrier™ Flash 'N Wrap 2400 over the 2200 and onto the penetration a minimum of 4-inches on and around the entire penetration.
- Allow 30 minutes for detail products to set up and you are ready to apply your air barrier.

## STEP 3 - Applying Air Barrier With Roller

- You have your choice of using either Poly Wall Blue Barrier Flash 'N Wrap 2400 or Poly Wall Blue Barrier Liquid Wrap 2300 when using a hand roller.
- When using a Power Roller we recommend Poly Wall Blue Barrier Liquid Wrap 2300.
- Simply open the 5 gallon bucket of product, no mixing necessary. Save lid liner for later use.
- Start on one end of your building and apply from top of wall downward, then lapping each coat moving horizontally. Your goal is to apply minimum 23 mils wet continuous film (69 SF / Gal theoretical coverage rate)
- Completely cover the entire wall substrate around the entire above grade position of the building.
- Carry the coating approximately 4 inches down onto the top of the foundation wall which will tie into your foundation waterproofing. Cover any exposed Poly Wall at grade level between bottom of siding / cladding and backfill / grade with an opaque, UV-stable material like metal flashing to properly protect Poly Wall materials from deterioration due to Sun/UV exposure.
- If you can see substrate through the wet Blue Barrier Liquid Wrap 2300, you are a bit light in coverage. Helpful hint. Try to correct this as you go while the material is still tacky. If additional coats of any Blue Barrier material are required, clean previously applied Blue Barrier with an approved solvent such as Mineral Spirits or Denatured Alcohol to bring the product back to tacky. Apply more Blue Barrier as needed.
- Allow minimum (4) hours for the Poly Wall Blue Barrier Liquid Wrap 2300 air barrier system to setup, depending on relative humidity and temperature. Because Blue Barrier products are moisture cure, please allow additional cure time for low-humidity climates; or accelerate the curing process in low humidity areas by applying a fine, evenly distributed "mist" of fresh water over the Blue Barrier material.
- Remove Blue Barrier residue from surfaces with an approved solvent: mineral spirits, denatured alcohol, or methyl acetate. Also use these solvents to clean/flush pump equipment. Do NOT clean Blue Barrier Liquid Wrap 2300 residue from surfaces or pump equipment with water because the product is a moisture-cure material, so water will aid in the cure cycle of the product.

## STEP 4 - Apply Cladding

- Common cladding/sidings can be installed to Blue Barrier Air Products within 24 hours of installation.

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