



## BEP Blue Barrier Installation and Application Guide

*BEP Blue Barrier is a system of seamless fluid applied products designed to protect the building envelope. Approved assemblies and applications listed below incorporate the **BEP Blue Barrier** product line. These products when used as a system are designed to provide seamless assemblies around windows and doors, at penetrations through the structure and provide a proven air and moisture barrier. This breathable and seamless system protects the building envelope from air and moisture infiltration, increases energy efficiency, guards against moisture damage and defends the structure from mold growth.*

**BEP Blue Barrier Products:** Blue Barrier Liquid Flashing 2100  
Blue Barrier Joint Filler 2200  
Blue Barrier Liquid Wrap 2300  
Blue Barrier Flash 'N Wrap RG 2400

**\*\* Important:** Certain Installation & Application Information in this Guide, applies to all assemblies and application uses of BEP Blue Barrier products. This information is listed in the “**Notes**” section at the end of the Guide. Please read carefully before proceeding with any application.

### 1. Window and Door Assembly

#### Wood / DensGlass:

**BEP Blue Barrier Liquid Flashing** or **BEP Blue Barrier Flash 'N Wrap RG** and **BEP Blue Barrier Joint Filler** are used in the window and door assembly. When preparing the opening for product installation, applicator must ensure the rough opening substrate is prepared and cleaned free of all debris and contaminants. The framing material should also be cleaned and all sheathing and framing should be installed properly to support the window frame per the manufacturer and engineering structural specifications. Any voids should be prepared with **BEP Blue Barrier Joint Filler**. All voids in excess of  $\frac{3}{4}$  of an inch should have a closed cell backer rod installed prior to the caulking of the joint. Set the backer rod to industry depth based on the joint size.

Apply the **BEP Blue Barrier Liquid Flashing** or **BEP Flash 'N Wrap RG** from the inside corner of the buck to return 4” to the face of the wood and/or DensGlass wall at 12 mils. **BEP Blue Barrier Liquid Flashing** can be applied with a trowel or **BEP Flash 'N Wrap RG** can be applied with a roller or chip brush. The coating will be dry to the touch within 30 minutes (depending on relative humidity) and the opening is now ready for installation.

Install the window and/or door with a bead of **BEP Blue Barrier Joint Filler** behind the flange. (If the installation is not on the same day, the installer must wipe down the original coating with an approved solvent, as listed on the BEP Technical Data Sheet, to remove dirt and debris between coats.) Once the window or door unit is installed and after the required inspection, the installer must clean and scuff the nail/installation fin and the portion of any waxed or painted frame on the window or door unit to be coated. Apply a coat of **BEP Blue Barrier Liquid Flashing** at 12 mils from the corner of wood frame to cover the scuffed fin and the frame of the unit making sure to cover any gap between the fin and the frame. See **Diagram #1**.



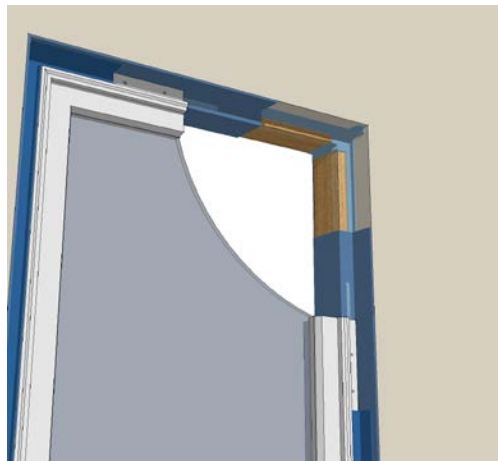
**Diagram # 1**

### Concrete/Masonry:

Ensure the concrete is prepared and cleaned free of all debris, contaminants and residual oils from form boards. All voids should be filled with **BEP Blue Barrier Joint Filler**. All voids in excess of  $\frac{3}{4}$  of an inch should have the appropriate sized closed cell backer rod set to the appropriate depth. The bucking material and/or opening must be prepared and installed as required by the window and door manufacturer and/or the engineering specifications. Apply **BEP Blue Barrier Liquid Flashing** or **BEP Blue Barrier Flash 'N Wrap RG** from the inside corner of the bucking to the outside corner of the block wall at 12 mils. On the concrete assembly, it is not necessary to carry flashing to the face of the block.

**BEP Blue Barrier Liquid Flashing** can be applied with a trowel, roller and/or chip brush. The coating will be tack free within 30 minutes of application and the opening is now ready for installation.

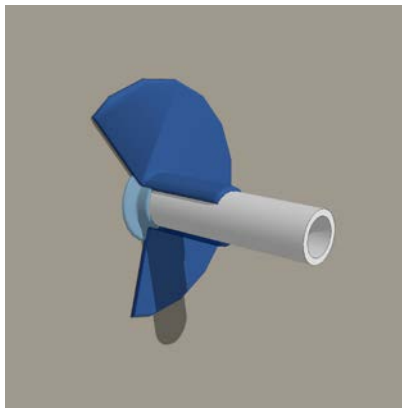
Install the window and/or door with a bead of **BEP Blue Barrier Joint Filler** behind the flange. (If the installation is not on the same day, the installer must wipe down the original coating with an approved solvent to remove dirt and debris between coats.) Once the window or door unit is installed and after the required inspection, the installer must clean and scuff the nail/installation fin and the portion of any waxed or painted frame on the window or door unit to be coated. Apply a coat of **BEP Blue Barrier Liquid Flashing** or **BEP Blue Barrier Flash 'N Wrap RG** at 12 mils from the corner of the block or poured concrete to cover the scuffed fin and the frame of the unit making sure to cover any gap between the fin and the frame creating a seamless barrier. See **Diagram #2**.



**Diagram # 2**

## 2. Penetrations of the Building Envelope

Use **BEP Blue Barrier Joint Filler** with **BEP Blue Barrier Liquid Flashing** or **BEP Flash 'N Wrap RG** to seal around all penetrations in the building envelope. All gaps and voids around the penetration in excess of  $\frac{3}{4}$  of an inch must be filled with closed cell backer rod and/or closed cell expanding foam. Ensure the backer rod and/or foam is set at the appropriate depth to width ratio. Scuff the penetration and caulk around it with **BEP Blue Barrier Joint Filler**, being sure to carry it onto the penetration itself. Wait 15 minutes, and then apply **BEP Blue Barrier Liquid Flashing** or **BEP Blue Barrier Flash 'N Wrap** to the penetration. Using **BEP Blue Barrier Liquid Flashing** or **BEP Blue Barrier Flash 'N Wrap RG**, coat at least 4" around and onto the penetration. See **Diagram # 3**.



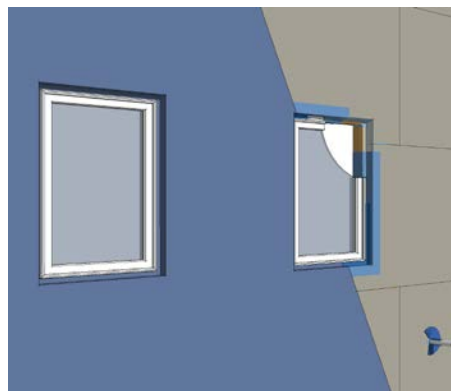
**Diagram # 3**

### 3. Air and Moisture Barrier System

**BEP Blue Barrier Liquid Wrap** or **BEP Blue Barrier Flash 'N Wrap RG** with **BEP Blue Barrier Joint Filler** are to be used to provide a seamless breathable barrier for the building envelope. Protecting the structure from air and moisture infiltration, **BEP Blue Barrier Liquid Wrap** can be spray applied or power rolled. **BEP Flash 'N Wrap RG can be Rolled or brushed on only.** In preparing for the application, the substrate must be power washed clean of debris and contaminants. Substrate surface can be damp to the touch (\* See Note). Ensure all windows and doors are protected from overspray. Any voids should be prepped with **BEP Blue Barrier Joint Filler**. All voids in excess of  $\frac{3}{4}$  of an inch should have a closed cell backer rod installed prior to the caulking of the joint. Set the backer rod to industry depth based on the joint size. All openings and penetrations in the building envelope must use the assemblies / systems / procedures listed in this Application Guide.

When applying with a power sprayer, the following spray equipment has been approved for use with **BEP Blue Barrier Liquid Wrap**: Titan Speeflo / Power twin 12000 plus or Graco GH 833 tip size to be 629 through 635. Tip size will vary on how much psi the machine is getting to the tip. Gun S-7 3/8 swivel / 2ft gun extension. Hose length of 100ft 3/8 5800 psi. sprayer pressure to be set at 3600 psi. Standing back two feet from the building, apply 20 mills wet using a crosshatch spray pattern. When selecting your airless spray equipment it is important to ensure you have and can maintain at least 2,000 psi at the spray tip. All filters in the spray gun should be removed. All filters in the machine should be removed. Specific to the Titan machine, this machine requires a filter to operate. The Titan equipment will use a "ZERO" filter. The zero filter would need to be cleaned at the end of each use. (REFER TO "GOOD PRACTICES, PROPER MAITENENCE" SECTIONS BELOW)

**To see the location for Liquid Wrap and or Flash 'N Wrap RG as it ties back into the window flashing, refer to Diagram # 4.**



**Diagram # 4**



### **Good Practices for your spray equipment when using BEP Liquid Wrap 2300**

Check that the material to be sprayed is uniform in color. In the event product settling occurs, blend with a Jiffy Mixer until coating is uniform in color.

Periodically check with a wet millage gauge to ensure proper millage which should be no less than 20 wet mills. Prior to spraying ensure all filters are removed from the gun and pump. If a filter is needed for the pump ensure you are using the largest hole size in filter possible such as the zero for Titan. Do not run a filter in the spray gun. Run an approved solvent through the lines and pump PRIOR to use with the **BEP Blue Barrier Liquid Wrap**. Running a solvent through the lines and machine will ensure no latent moisture/water/oils or other foreign material will be in contact with the product. Ensure you flush the solvent out of the pump before placing into the BEP material. Do not allow the material to sit idle in the sprayer for more than 15 minutes. To clean your machine after use you will pump the approved solvent back through the machine to ensure all **BEP Blue Barrier Liquid Wrap** material is flushed from the lines and the machine. Once flushed if using a Titan or a zero filter remove and inspect the filter and tip. Not flushing properly could result in the material hardening in the hose and or machine. Replacing the lower packing on the machine is recommended every 4-6 uses to ensure consistent pressure.

**Proper Power Sprayer Equipment Maintenance** – Review the recommended daily maintenance instructions provided by the pump manufacturer. Before and after each use, ensure the unit has been flushed out with an approved solvent such as Mineral Spirits. Ensure all tips and hoses have been completely flushed with a proper solvent immediately after use. After running the solvent through the pump, remove the number 0 filter and clean. Never run water through the pump prior to use with BEP Liquid Wrap, as this is a moisture cure product and will react to the water in the pump and lines.

**BEP Blue Barrier Flash 'N Wrap RG** – with **BEP Blue Barrier Joint Filler** are to be used to provide a seamless breathable barrier for the building envelope. Protecting the structure from air and moisture infiltration, **BEP Blue Barrier Flash N' Wrap RG** can be rolled with standard rolling methods. Use a  $\frac{3}{4}$ " nap roller for best results. **BEP Flash 'N Wrap RG can be Rolled or brushed on only**. In preparing for the application, the substrate must be power washed clean of debris and contaminants. Substrate can be damp to the touch. Ensure all windows and doors are protected from any splatter. Any voids should be prepped with **BEP Blue Barrier Joint Filler**. All voids in excess of  $\frac{3}{4}$  of an inch should have a closed cell backer rod installed prior to the caulking of the joint. Set the backer rod to industry depth based on the joint size. All openings and penetrations in the building envelope must use the assemblies / systems / procedures listed in this Application Guide.

**Surface Preparation for all Assemblies** – All products should be applied to surfaces cleaned free of all debris, contaminants and/or residual oils from any form boards. Wood and concrete can have high moisture content with no negative affect on adhesion. Do not apply onto any approved substrates with surface temperatures below 33°F or greater than 100°F.



**Additional Information** – More information regarding all BEP Blue Barrier products including approved cleaning solvents, suitable substrates, product storage, physical properties etc. can be found in the BEP Blue Barrier Product Technical Data Sheets. Individual Technical Data Sheets are available for:

Blue Barrier Liquid flashing 2100  
Blue Barrier Joint Filler 2200  
Blue Barrier Liquid Wrap 2300  
Blue Barrier Flash 'N Wrap RG 2400

- \*\* Notes:**
- 1) **BORATE TREATED LUMBER:** Upon applying BEP Blue Barrier to lumber pressure treated with Borate, applicators must perform a visual inspection of the lumber prior to application of the Blue Barrier product. The visual inspection is to ensure the treated lumber is not over saturated and is free from any crystallization. In the event crystals are identified on the lumber, the applicator must perform a solvent wipe using approved solvents specified in the Blue Barrier product Technical Data Sheets. Once product passes the visual inspection and/or has been cleaned and prepared, applicator should install BEP products as outlined in this application guide. Always ensure all surfaces to be coated are clean and dry of excess Borate prior to applying BEP.
  
  - 2) If additional coats of any BEP Blue Barrier material are required, the previously applied Blue Barrier product must be cleaned with an approved solvent and brought back to tacky.
  
  - 3) BEP Blue Barrier can be applied on damp substrate surfaces and in damp atmospheric conditions, however, BEP Blue Barrier should never be applied to any substrate, or unto substrates in heavy rain conditions where water is directly hitting the substrate during application or water is flowing over the substrate to which the product is being applied.
  
  - 4.) When applying Stucco to the BEP Blue Barrier system there are two approved methods:
    - a.) The first approved method is to use wire lathe.
    - b.) The second approved method is to broadcast silica sand into the wet BEP Blue Barrier to refusal. Once cured brush off excess silica sand then apply Lambert 932 onto the BEP Blue Barrier and add the Lambert 932 into the scratch coat of the stucco. Using a 1 to 3 mixing ratio. Allow the stucco scratch coat a minimum of 2 days before applying finish coat.

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