



Material

IntelliWrap™ BGLA (water-based) is a fluid-applied, water-based polymer modified asphalt emulsion air, vapor, water barrier. It is designed to provide a flexible, monolithic air, vapor and water barrier when applied over a wide variety of below-grade vertical surfaces including masonry, concrete, exterior gypsum board, stone, wood sheathing and metal. It cures to a tough, durable film with excellent elastomeric and crack bridging capabilities.

IntelliWrap™ BGLA (solvent-based) is a fluid-applied, solvent-based polymer modified asphalt waterproofing air, vapor, water barrier. It is designed for use as the membrane component in a below grade exterior wall waterproofing system. It forms a tough, durable membrane which bridges shrinkage cracks.

IntelliWrap BGLA meets the requirements of ICC-ES AC29: "Acceptance Criteria for Cold, Liquid-applied, Below-grade, Exterior Dampproofing and Waterproofing Materials".

Properties

Accommodates Building Movement - IntelliWrap BGLA cures to a tough, flexible membrane capable of accommodating building movement while controlling air leakage into and out of conditioned living spaces.

Superior Air Leakage Resistance - Tests indicate that air leakage rates for IntelliWrap BGLA are below the detectable limits of the mass flow equipment used to measure air flow. IntelliWrap BGLA has leakage rates of less than 0.001 L/s/m² when tested in accordance with ASTM E 2178-03, considerably below the 0.004 minimum required. IntelliWrap BGLA are ideal for use as air, vapor and water control layer for below grade walls.

Promotes Energy Efficiency - Numerous studies have shown that air leakage contributes to condensation, moisture development and energy loss in the wall assembly. IntelliWrap BGLA minimizes the negative impact of air leakage by providing a flexible blanket of protection over the exterior wall assembly prior to drainage accessories and backfill. IntelliWrap BGLA controls the movement of air through the building envelope. It eases the load on the HVAC system, thereby making the building more cost effective and energy efficient. Controlled air flow is also less likely to contribute to mold growth inside the building walls. The net result is a more comfortable, healthier and energy efficient building environment.

Environmentally Friendly - IntelliWrap BGLA (water-based) is an environmentally friendly, water-based construction material. It does not contain any solvents, and there are no storage, handling, or VOC restrictions. It does not produce any odors, and it is safe for both the applicator and any other personnel employed at or visiting the job site.

Surface Preparation

Prior to the application of IntelliWrap BGLA, the applicator shall examine the substrate, job site and surrounding area to ensure that conditions are suitable before commencing work. The application surface should be sound, dry, even and free of oil, grease, dirt, excess mortar or other contaminants. All masonry joints must be flush and completely filled with mortar. All excess mortar sitting on masonry ties should be removed. All penetrations should be grouted and filled. If the surface cannot be made smooth to the satisfaction of the owner's representative, apply multiple coats of IntelliWrap BGLA over the entire surface.

Application

IntelliWrap BGLA should not be applied during inclement weather, and the installation should not proceed in the event that precipitation is probable during the application. Consult your local IMETCO representative or the IMETCO Technical Department for application recommendations when application temperatures are less than 50° F (10° C).

Apply flashings and transition sealants prior to spraying. Consult IMETCO's application specifications for more detailed instructions. Spray or roll a continuous, uniform film of IntelliWrap BGLA at a minimum 80 wet mils to achieve a 50 dry mil membrane. Alternate horizontal and vertical passes when spraying to ensure even thickness and installation.





Storage

Store materials in a dry area and protect from direct sunlight. Ideally, the materials should be stored inside in a temperature controlled environment (between 60-80° F(15.5-26.6° C). Do not allow IntelliWrap BGLA to freeze. Any materials exposed to the elements should be elevated above the ground and covered by a tarpaulin. Materials should not be exposed to excessive heat or direct flame. Store materials until immediately prior to use when the ambient temperature is less than 50° F (10° C).

Precautions

- Protect the air, vapor, and water system from damage during application and for the remainder of the construction period
- Clean spillage and overspray from adjacent construction with an appropriate cleaning agent or consult IMETCO for a suitable cleaning method
- Do not leave the air/vapor barrier exposed to the elements for more than 30 days. Consult your local IMETCO representative if it is necessary to leave the material exposed for longer than 30 days
- Do not install if temperature is below 50° F (10° C)
- Discontinue application if the material cannot be stored at temperatures that permits even distribution of product
- Discontinue application if the material cannot be stored at temperatures that permits even distribution of product
- Avoid inhaling the spray mist and take precautions to ensure adequate ventilation. Consult the product MSDS prior to spraying

Spray Equipment Recommendations

Gasoline powered, airless spray units with a minimum 4,000 p.s.i. rating will effectively spray any IntelliWrap BGLA. For efficient spraying, use a heat exchanger to warm product to 100-130°F (37.7-54.4°C) immediately prior to spraying. A reverse-a-clean spray tip with an orifice between .030 and .039 is recommended for spraying IntelliWrap BGLA. Most spray systems utilize 150 ft. of hose. Use ½ inch, 5,400 p.s.i. rated hose for the first 100 feet. Use 3/8 in., 4,700 p.s.i. hose for the next 50 feet. A 4 foot, ¼ in. whip line is used immediately before the spray gun to facilitate spraying. Do not mix water and solvent-based material in the hose lines. Clean lines with mineral spirits before switching materials. Clean spray equipment with mineral spirits.

| Technical Data | Water Based | Solvent Based |
|-----------------------------------|--------------------------------|--------------------------------|
| Color | Black | Black |
| Solids (by weight) | 62% +/- 5% | 62% +/- 5% |
| Density | 8.4lbs. per gal | 7.7lbs. per gal |
| Application | Airless Spray / Brush / Roller | Airless Spray / Brush / Roller |
| Cure Time | 12-24 Hrs | 12-24 Hrs |
| Adhesion to Concrete ASTM C836 | Exceeds | Avg. 2.04 lbf./in. |
| Elongation ASTM D412 Die C | 1,936% min. | 850% min. |
| Low Temperature Flexibility | Passes -14.8°F (-26°C) | Passes -14.8°F (-26°C) |
| Coverage Rate | 15 sqft / gallon | 15 sqft / gallon |
| Vapor Permeance ASTM E96 | 0.62 perms | 0.44 perms |
| Air Permeance ASTM E2178 | Passes <0.001 l/s/m2 | Passes <0.001 l/s/m2 |
| ICC AC-29 Requirements | Passes | Passes |
| Packaging | 5 gallon 55 gallon | 5 gallon 55 gallon |
| VOC | 50 g/l | 369 g/l |