



Hydro-Guard BG

Below Grade Waterproofing Membrane

MINIMUM FINISHED THICKNESS

30 mils (0.76 mm)

MATERIAL STANDARDS

- ASTM C109
- ASTM C794
- ASTM D638

SPECIFICATION CLASSIFICATIONS

- 07 14 16 Cold Fluid-Applied Waterproofing
- 07 19 00 Water Repellents
- 07 55 53 Elastomeric Protected Membrane Roofing
- 07 55 56 Fluid-Applied Protected Membrane Roofing

MATERIALS NEEDED

- Mer-Thane Fiber Tape. (as needed for Crack & Joint Treatment)
- PUC 1000 polyurethane caulking (as needed for joint sealant).
- Hydro-Guard BG Waterproofing Membrane
- 10" Synthetic Burlap
- Glassmat Type II
- 40" Synthetic Burlap (fabric option)
(Fabric as needed for perimeter and surface reinforcement)

COLOR

Hydro-Guard BG is black

INSTALLATION CONDITIONS

The Hydro-Guard Waterproofing Membrane should not be installed if the surface or ambient temperature is below 40°F (4.4°C) or above 120°F (48.8°C). Do not install during inclement weather, when precipitation is occurring or expected within 24 hours.

ADVANTAGES

- Seamless, Monolithic Waterproofing Membrane System
- Excellent Adhesion Including Damp Surfaces
- Rapid Installation
- Ready For Installation Without Heating Or Thinning
- Does Not Become Brittle With Age
- Can Be Installed Over New And Existing Surfaces
- Maintains Elastomeric Properties At Low Temperatures
- Outstanding Long-Term Durability And Performance
- Superior Resistance To Damage Caused By Flexing And Twisting
- Suitable For Vertical And Horizontal Applications

SYSTEM DESCRIPTION

Hydro-Guard BG is a single-component, non-fibrated, asphalt modified, neoprene waterproofing membrane designed to provide high-performance below grade protection from positive side water pressure. This vapor permeable membrane is applied over plywood or concrete substrates and allows moisture vapor to escape to prevent blistering and delamination of the applied membrane, while prohibiting infiltration of moisture through foundation walls and footings, retaining walls and planter boxes. Hydro-Guard BG also exhibits excellent adhesion to damp surfaces.

Hydro-Guard BG is pre-packaged for immediate job site use without the need for heating or thinning. This 'factory ready' formulation contributes to rapid installation and ease of use.

Hydro-Guard BG can be installed over any acceptable surface at a minimum 30 mils (0.76mm) dry finished thickness. This solvent-free formulation incorporates an anti-microbial additive designed to prevent mold and mildew growth and contribute to a healthier environment.

USES/APPLICATIONS

- Below Grade Vertical & Horizontal Applications
- Planter Boxes
- Fountains & Reflection Pools/Ponds
- Decorative Water Shapes & Waterscapes
- Exterior Waterproofing Applications
- Foundation & Retaining Walls
- Between slab waterproofing membrane (e.g., plaza decks, roof terraces, podiums)

SUBSTRATES

Hydro-Guard BG can be installed over properly prepared plywood, concrete and other existing substrates.

SUBSTRATE PREPARATION

The substrate surface must be clean and free of dust and any other contaminants at the time of material application. A minimum finished deck slope of 2% (1/4 unit vertical in 12 units horizontal) is required for proper drainage. Use No. 26 gage bonderized steel or equivalent flashing around the perimeter; clean and degrease all metal flashings with isopropyl or denatured alcohol. Do not use copper perimeter flashings. Stainless steel requires scuffing with the use of 100-120 grit sand paper prior to cleaning..

Plywood Surfaces

Plywood substrates shall be a minimum 5/8 inch thick (16mm) exterior grade, PS 1, exposure one, plywood, complying with and installed in accordance with the 2006 International Building Code and/or 2009 International Building Code with all edges blocked. Face plies must be perpendicular to the supports. The plywood must be attached to all blocking and end bearings with countersunk wood screws, screw or ring-shank nails equivalent to 8d common nails, spaced 4 inches (101.6mm) on center at sheet perimeters and 8 inches (203.2mm) on center in the field areas, or as otherwise required by the IBC, whichever is more restrictive.

Concrete Surfaces

Concrete surfaces must be clean, sound and provide a uniform surface free of depressions and ridges. Prepare concrete surfaces using a power sprayer, grinder or shot blast as required to produce a clean, sound substrate. All holes must be cleaned and filled with an appropriate Mer-Ko underlayment. All high spots must be removed by chipping or grinding. Concrete control joints should coincide with stress relief concentration points, with a maximum spacing of 20 feet (6.1 m).

COVERAGES

Coverage rates are approximate only and can vary due to surface conditions, humidity, temperature and installation techniques.

Hydro-Guard BG

Waterproofing Membrane..... 145 ft² (13.5 m²)/ 5 gallon pail
Yield: 30 mil (0.76mm) DFT

Mer-Thane Fiber Tape 4 inch X 150 LFT/45.7m rolls

Glassmat Type II..... 1,200 ft² (111.5m²)/roll
40" Burlap (fabric option)..... 1,000 ft² (93m²)/roll

Synthetic Burlap 10" 300 LFT (91.5 m)/roll

MIXING

Stir the Hydro-Guard BG Waterproofing Membrane prior to use.

APPLICATION INSTRUCTIONS

Non fabric reinforced waterproofing membrane applications use:

1. Crack & Joint Treatment

Treat substrate cracks, joints and flashing to substrate transitions by applying a thick coat of Hydro-Guard BG Waterproofing Membrane at a minimum 15 mil (0.38mm) DFT over the immediate surface crack or joint using a trowel, brush or roller, ensuring complete coverage. Immediately after the Waterproofing Membrane has been applied and while the material is still wet, embed Mer-Thane 4 inch Fiber Tape into the wet Waterproofing Membrane for a distance of 2 inches on both sides, saturating it completely.

Firmly trowel-push the fabric into the wet membrane material to ensure that it is completely embedded. No dry or fabric material spots should be visible and the Fiber Tape should lay completely flat and without wrinkles. Apply additional Waterproofing Membrane as necessary over areas to ensure embedment.

2. Perimeter – Waterproofing Membrane

Waterproof the perimeter flashing area by applying one thick coat of Hydro-Guard BG Waterproofing Membrane onto the properly prepared vertical surface and onto the adjacent horizontal surface far enough to accommodate the remaining portion or the 10" fabric using a brush or roller, at a minimum 15 mil (0.38 mm) DFT. Immediately embed the 10" synthetic burlap (Type III Fabric) filament/fuzzy side down in the wet Waterproofing Membrane saturating it completely, overlapping successive runs of fabric edges a minimum of 2 inches (51 mm). Make sure the burlap is fitted tightly in corners and around protrusions. Brush apply Waterproofing Membrane into tight areas and corners to fill holes and other voids. Apply additional Waterproofing Membrane as necessary over flashing areas to ensure positive waterproofing (no pinholes).

Using the same methods, apply a second coat of Waterproofing Membrane to all vertical surfaces at a minimum 15 mil (0.38 mm) DFT completely covering the burlap. The Waterproofing Membrane should be applied at an over all minimum 30 mils (0.76 mm) DFT.

3. Substrate – Waterproofing Membrane, First Application

Waterproof the horizontal surface by applying 1 thick coat of Hydro-Guard BG Waterproofing Membrane at a minimum 15 mil (0.38 mm) DFT over the properly prepared surface, using a trowel or roller, ensuring complete coverage. When applicable: Immediately and while the material is still wet, embed the Glassmat Type II (Option: 40" Synthetic Burlap/ filament/ fuzzy side down) fabric into the wet Waterproofing Membrane saturating it completely. Firmly trowel-push the fabric into the wet membrane material to ensure that it is completely embedded. No dry or fabric material spots should be visible and the fabric should lay completely flat and without wrinkles. Overlap successive runs of fabric edges a minimum of 2 inches (51 mm). Apply additional Waterproofing Membrane as necessary over areas to ensure positive waterproofing (no pinholes). Apply the membrane/fabric/membrane layers in sections working across and off of the horizontal surface.

4. Substrate – Waterproofing Membrane, Second Application

Apply a second coat of Hydro-Guard BG using the same methods at a minimum 15 mil (0.38 mm) DFT completely covering the fabric. Waterproofing Membrane should be applied at an over all minimum 30 mils (0.76mm) DFT. Allow the entire area to dry a minimum of 24 hours at 70°F (21°C) 50% RH, until dry enough to walk on without leaving impressions. Applications in elevated humidity conditions will require additional dry time.

PACKAGING

Waterproof Membrane

Hydro-Guard BG Waterproofing Membrane..... 5 gallon pail
(18.9 liter pail)

Fabric Options

Mer-Thane Fiber Tape 4 inch X 150 LFT/45.7m rolls
18 rolls per case

Glassmat Type II..... 1,200 ft.² roll 111.5 m²

Synthetic Burlap 10" 300 LFT roll 91.5 m

Synthetic Burlap 40" 1,000 sq. ft. roll 93 m²

5. Substrate Protection

The Hydro-Guard BG Waterproofing Membrane must be adequately protected after application, while curing and for the duration of the project and until finishing materials are applied. Install adequate protection before putting the area into service or backfilling. Protect the cured membrane using standard protection board or other building material as necessary.

CAUTIONS & LIMITATIONS

- The substrate surface must be structurally sound, clean and free of dirt, dust, oil, grease, paint or other contaminants at the time of material application.
- Not suitable as a finished surface, the Hydro-Guard Waterproofing Membrane can not withstand direct wear and abrasion.
- Not UV stable.
- Do not install during inclement weather, when precipitation is occurring or expected within 24 hours.
- Mer-Ko waterproofing systems are designed for professional installation.
- System warranties require installation by currently listed applicators.
- Not designed for vehicular or heavy steel wheeled traffic.
- When contemplating a deck installation over an unheated enclosed space (e.g., garage, etc.) provision must be made to vent the area.
- Drains must be of a design suitable to receive Hydro-Guard BG.
- Protect all finished surfaces that are not intended to receive the coating system materials.
- Use extra caution in protecting surfaces not to be coated when using spray application methods. Windy conditions or over spray can damage surrounding surfaces.

STORAGE & HANDLING

Store all Hydro-Guard Membrane materials off the ground in a dry environment at temperatures between 40°F and 100°F (4.4°C and 38°C) and not in direct sunlight. Do not allow uncured membrane material to freeze. All materials should be stored in compliance with local fire and safety requirements. Always wear proper safety equipment, including particle mask, eye protection and gloves when mixing and/or applying these products.

SHELF LIFE

shelf life for Hydro-Guard BG is six (6) months from the date of manufacture in the original, unopened container when the material is properly stored.

WARRANTY

Five (5), ten (10) and fifteen (15) year warranties are available depending upon product selection and project design. Contact Mer-Ko's Customer Service Department for specific warranty information.

Technical Application Guide

Hydro-Guard BG

PHYSICAL CHARACTERISTICS

Adhesion	10 lbs/lineal inch of width (90 Peel)
Drying Time	24 hours at 70°F (21.1°C) 50% RH
Elongation	> 500% (ASTM D638)
Moisture Vapor Transmission	0.02 grams/hr/ft ²
Temperature Sensitivity	At Installation, 40°F to 100°F (4.4°C to 37.8°C) After Installation, -20°F to 200°F (-28.9°C to 93.3°C)
Tensile Strength	> 240 psi (ASTM D638)
Thickness	30 mils (0.76mm)
Percent Solids	55%
VOC	74 g/L
Density	8.5 lbs/gal

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