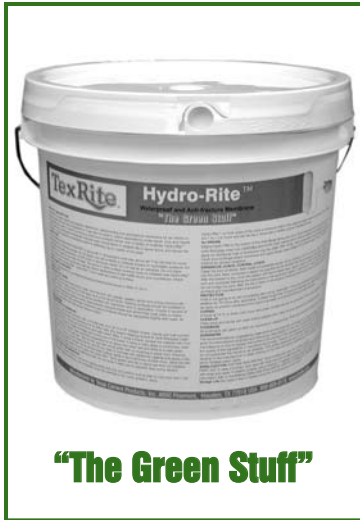




# HYDRO-RITE™ WATERPROOFING and CRACK ISOLATION Membrane

## Product Information

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**"The Green Stuff"**

**Hydro-Rite™** is a water based, liquid applied, elastomeric, waterproofing and crack isolation membrane for residential interior or exterior applications. Applied with brush, roller or trowel, **Hydro-Rite** can also be used under ceramic tile, stone, vinyl, carpet and interior wood to reduce moisture flow in concrete slabs subject to moisture transmission of up to 12 pounds per 1000 sq. ft. per 24 hours down to 3 pounds based on the Calcium Chloride Test (ASTM F1869-98).

### BASIC USE

**Hydro-Rite** is used as a positive waterproofing membrane on substrates prior to the installation of ceramic tile, vinyl tile, rubber tile, brick, strip wood, parquet, marble and stone. When fully cured, it performs exceptionally well when continuously exposed to water. When used under latex Portland cement dry-set mortar or over "mud bed" installations, the elastomeric properties of **Hydro-Rite** help reduce the risk of substrate cracks transferring to tile or stone.

### AREA OF USE

**Hydro-Rite** waterproofing membrane can be used for interior, exterior, vertical, and horizontal applications. Since **Hydro-Rite** is highly elastic, it permits the installation of hard surfaces to substrates subject to deflection up to 1/240th of the span.

### LIMITATIONS

Do not install at temperatures below 40° F. Temperature must stay above 40° F for the first 72 hours after application including substrate. Do not apply over wet surfaces or surfaces subject to hydrostatic pressure. Do not bridge over existing expansion, contraction, construction joints or structural cracks. Plywood should be exterior grade and used for interior applications of light traffic floors and countertops where exposure to water is intermittent. Do not use as an adhesive. Do not leave exposed to UV Light for more than 30 days. Do not bond adhesives directly to **Hydro-Rite**. **Hydro-Rite** is not used as a wearing surface; tile, stone or other surface covering must be installed over **Hydro-Rite**.

### APPLICABLE STANDARDS

**Hydro-Rite** meets the requirements for Load Bearing Waterproof Membranes found in ANSI A118.10.

### PACKAGING

COLOR: Green  
TEXTURE: Semi-paste/liquid  
PACKAGING: **1 Gal. Unit** = 1 Gallon Liquid  
**2 Gal. Unit** = 2 Gallons Liquid  
**5 Gal. Unit** = 5 Gallons Liquid

### INSTALLATION

#### Preparatory Work

All surfaces must be structurally sound, clean, and free from dirt, grease, sealers, paints, cut-back adhesives, old glue residue and curing compounds. Concrete must be cured a minimum of 28 days and have a fine broom finish. Existing surfaces should be scarified or sanded. Cracks in concrete up to 1/8" should be pre-filled with **Hydro-Rite** prior to application. Cracks in excess of 1/8" should be treated as expansion joints. Gaps between plywood sheets and where they meet walls or drains should also be pre-filled with **Hydro-Rite**. Extremely porous surfaces should be dampened slightly with water. All exterior and wet areas shall have proper slope to drains.

#### Application:

#### as WATERPROOFING MEMBRANE

**Flashing:** Using a brush, roller or trowel, pre-coat **Hydro-Rite** six-inches in each direction all inside and outside corners, where walls and floors or any horizontal and vertical surfaces meet such as benches, curbs and columns, etc. and where any dissimilar materials meet. Embed 6" wide fiberglass mesh into the wet **Hydro-Rite** membrane, 3-inches in each direction. Push the membrane into corners to assure full contact. Apply another coat of **Hydro-Rite** over the polyester mat and allow to dry prior to "Final Application".

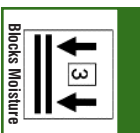
**Membrane Installation:** Next, if using a trowel, spread the **Hydro-Rite** with a 3/16-inch V-Notch trowel held at a 45° angle then flatten the ridges with the flat side of the trowel over the entire surface to be waterproofed, including flashing. If using a brush or 1/2 inch nap roller, apply a continuous, even film with overlapping strokes. Initial membrane appearance is an aqua color when wet and dries to a dark green color. The wet coat shall be 3/64-inch (47 mils) thick. After the first coat has turned green with no blushing or aqua color showing, about 1 hour, visually inspect the film and fill any voids or pinholes with additional material, then apply a second 3/64-inch (47 mils) thick wet coat at right angles to the first. The combined dried coatings need to be a minimum of 3/64-inch, but no more than 1/8-inch thick.

**Note:** Coverage shall be no more than 40 sq. ft. per gallon for the two combined wet coats. This gives the proper dry thickness for waterproofing.

Allow the second coat to dry approximately 2-4 hours (when the **Hydro-Rite** turns green). Then tile or stone can be installed using one of the TexRite polymer modified thin-sets. Do not cover if water test is required. See curing section.

#### for Drains

Extend **Hydro-Rite** to the bottom of the drain flange taking care not



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to block weep and drain holes. Embed 6-inch wide fiberglass mesh into wet membrane around the drain making sure it does not obstruct the drainage hole. Then apply an additional coat of membrane over the mesh. After the **Hydro-Rite** has cured, clamp upper flange onto membrane and tighten. Caulk around flange with a silicone caulk where membrane and upper flange make contact. See TCNA Installation method for shower receptors.

#### as a CRACK ISOLATION MEMBRANE

Use the same V-Notch trowel or roller as for waterproofing, but only one uniform wet coat at 3/64 inch (47 mils) (approximately 1/32-inch dry) is required. The membrane can completely cover the substrate or for crack isolation only over existing cracks, apply **Hydro-Rite** on both sides of the crack a minimum width of the diagonal measurement of the tile or stone. Allow to dry 1 to 1-1/2 hours and set the tile or stone with a TexRite polymer modified thin-set.

#### as MOISTURE TRANSMISSION REDUCTION

First, apply as a primer by diluting the **Hydro-Rite** using four parts clean water to one part **Hydro-Rite**. Completely coat the slab by using a stiff broom, roller or brush (coverage of 1-gallon of **Hydro-Rite** and 4-gallon water is 400-450 sq. ft.). After the primer coat is dry (usually within 1 hour), apply an additional coat of undiluted **Hydro-Rite** as directed above for waterproofing, at 3/64-inch wet. This will reduce the moisture transmission of 12 pounds or less, to a transmission of 3 pounds per 1000 sq. ft. per day. Refer to the flooring material manufacturer for specific recommendations and testing procedures.

Next prior to installing vinyl, carpet and hardwood applications which require adhesives, install a 1/8th inch layer of TexRite FeatherRite following manufacturers instructions.

#### All Expansion Joints, Contraction Joints

Clean the joint of debris. Next install compressible backer rod into the joint as outlined in EJ 171 in the Tile Council of North America Handbook. Next, compress a sealant as specified by the architect into the joint leaving it flush with the surface. After the sealant is dry, cover the sealant with bond breaker tape. Apply a minimum 3/64" of **Hydro-Rite** over the joint and substrate following the instructions in the application section. Install the tile or stone onto the membrane but do not bridge the joint. After the tile or stone is set properly, fill the joint with colored caulk or sealant, following the architect and manufacturer's instructions.

#### Protection

If tile is not going to be set immediately after curing, **Hydro-Rite** should be protected from rain and inclement weather for 72 hours after application. If delays longer than 72 hours are expected, cover with felt paper. Care should be taken to prevent membrane from becoming soiled or punctured during and after application.

**GUARANTEE** - The recommendations, suggestions, statements and technical data in this bulletin are based on our best knowledge. They are given for informational purposes only and without any responsibility for their use. The responsibility for the seller and manufacturer is only to replace that portion of the product of this manufacturer, which proves to be defective due to the quality of the ingredients or the manufacturing process itself. However since handling and use is beyond our control, we do not guarantee the results to be obtained. Only written statements signed by an officer of the manufacturer are binding on the manufacturer or seller. Nothing in this bulletin should be interpreted as a recommendation for a use, which violates any patent rights.

#### Curing

**Hydro-Rite** normally cures within 24 hours. A water test can be conducted 72 hours after application if required.

#### Cleaning

Clean tools and hands with water before material dries.

#### Coverage

35 to 40 sq. ft. per gallon at 3/64"(47 mils) thickness for waterproofing. 70-80 sq. ft at 1/32-inch for anti-fracture membrane.

### SPECIFICATIONS

#### Technical Data: Hydro-Rite

Test	Typical Values
Color :	Green
Texture:	Viscous liquid
Storage Life @ 70°F: (sealed container)	2- years
Elongation ASTM D-638, 21 day:	562%
Hydrostatic pressure & alkali resistance, ASTM C-836:	Passes

#### ANSI A 118.10 Specifications

Initial Dry Time @ 70°F	1 1/2 - 2 Hours
Drying Time @ 70°F:	24 Hours
Fungus and Micro-Organism Resistance (Sect 4.1):	Passes
Seam Strength width (Sect 4.2):	10.2 lbs./inch
Breaking Strength (Sect 4.3):	400 psi
Dimensional Stability (Sect 4.4):	0.70%
Waterproofness (Sect. 4.5):	Passes
Shear Strength:	
7-Day dry Cure (Sect. 5.3):	200 psi
7-Day Water Immersion (Sect 5.4):	150 psi
4-week dry cure (Sect. 5.5):	355 psi
12-Week dry cure (Sect. 5.6):	390 psi
100-Day water immersion (Sect. 5.7)	190 psi

**SAFETY- CAUTION:** EYE AND SKIN IRRITANT. Avoid contact with eyes. Do not take internally

**FIRST AID:** In case of contact, flush eyes with large amounts of water for at least 15-minutes. Wash affected skin area with soap and water. If irritation persists, see a physician. If ingested, contact a physician immediately. For additional information refer to the Material Safety Data Sheet (MSDS). In case of contact with eyes, flush with water and call physician immediately; for skin contact, wash with warm soapy water. If material is swallowed, call physician immediately.

#### KEEP OUT OF THE REACH OF CHILDREN.

**Storage** - Two years if kept in sealed containers at temperatures of 40° to 90° F. Protect from freezing.