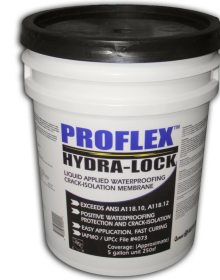


## 1. PRODUCT NAME

Hydra-Lock

## 2. MANUFACTURER

PROFLEX® Products, Inc.  
2826 Broadway Center Blvd  
Brandon, Florida 33510  
Telephone: 863-937-9623  
Toll Free: 877-577-6353  
Fax: 863-937-9624  
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## 3. PRODUCT DESCRIPTION

PROFLEX® Hydra-Lock is a thin, load bearing membrane composed of a modified elastomeric copolymer. With excellent elongation properties and high strength, Hydra-Lock provides a 100% waterproof membrane coating while limiting the transfer of substrate cracks to the finished overlay. The membrane is installed in a liquid state and can be applied to practically any form or irregular shape (i.e. base flashings, parapets, walls, etc.).

### Uses

Hydra-Lock is for use in commercial buildings, residential housing and other areas requiring positive waterproofing like pools, fountains, spas, hot tubs, kitchens, countertops, balconies, tub surrounds, shower stalls and pans, under terrazzo, quarry, ceramic and stone tile. This membrane can be installed over any sound substrate, vertically or horizontally, interior and exterior.

### Features

- Low VOC
- Interior or Exterior
- Crack Isolation up to 1/8"
- Adheres to all common surfaces
- Built-in antimicrobial for mold and mildew resistance at the substrate
- Installs quickly, cures in 2-4 hours (70° F, 50% R.H.)
- Fast-drying, foot traffic in 4 – 6 hours
- Thin section that does not interfere with elevations
- Exceeds ANSI A118.10 and A118.12 membrane requirements
- Easy to use; can be applied by trowel, airless sprayer, paint brush or roller
- May be turned up for base flashing and applied to walls for wainscot or shower wall application.

### Suitable Surfaces

- Brick masonry
- Cement backer board for interiors only
- Cement mortar beds
- Cement terrazzo
- Ceramic and stone
- Concrete
- Exterior grade plywood

### Packaging

5 Gallon Unit: 5 gal. pail (18.9261 L), 36 pails per pallet

### Coverage

5 Gallon Unit: 250 sq. ft

### Shelf Life

One year from manufacturing in sealed original container, when properly stored at room temperature, off the ground in a controlled, dry, heated area.

## 4. TECHNICAL DATA

### Physical & Test Data

<i>Adhesion</i>	>250 psi
<i>Elongation</i>	>800%
<i>Porosity</i>	No Transmission (115 psi for one hour)
<i>Range of Temperature for Use</i>	+40°F to 110°F (at installation) 35°F to 150°F (after installation)
<i>Water Absorption</i>	0% (Total immersion for 24 hours)
<i>Drying Time (to touch - per layer)</i>	48 hours at 70°F and 50% R.H.
<i>LEED 2.2 NC VOC</i>	<i>EQ Credit 4.1</i>
<i>VOC</i>	<65 g/l VOC
<i>Hydra-Lock Results</i>	20 g/l VOC

### Applicable Standards

Hydra-Lock meets or exceeds tile industry requirements:

ANSI A118.10 load bearing bonded waterproof membrane for thin set ceramic tile and dimension stone installation, also ANSI A118.12 crack isolation membrane for thin set ceramic tile and dimension stone installation. Follow ANSI 108.13 and ANSI A108.17 for installation, in addition to these directions

## 5. INSTALLATION

### Installation

#### Surface Preparation

All surfaces must be between 40° F (4° C) to 95° F (35° C) and structurally sound (deflection not to exceed 1/360 of the span), dry, clean and free from oil, grease, wax, paint, old adhesives, sealers and curing compounds. Any contaminates which inhibit proper bond must be removed.

Substrate preparation should be completed following ANSI A108.01 "General Requirements: Sub-surfaces and Preparation by Other Trades." All substrates should be plumb and true, surface deviation should not exceed 1/4" in 10'. Patching, leveling or properly sloping of wet or exterior areas requiring a mortar bed should be prepared using PROFLEX® underlayments. If product has separated or thickened, product should be mixed with a slow mixing drill, not incorporating air. Some separation may occur upon standing, which has no reflection upon the quality of the product.

#### Reinforcement

Hydra-Lock has been formulated to perform as a waterproof membrane with reinforcing fabric. As a crack isolation membrane, fabric is typically not recommended. As a waterproof membrane, manufacturer recommends the use of reinforcing fabric to ensure maximum protection at joints, cracks, protrusions, dissimilar materials, and drains.

#### Preparation

##### Joints, Cracks and Protrusions

Pre-fill all substrate cracks, cold and control joints with Proflex latex modified thin set or 100% Polyurethane caulking. Fill all voids with PROFLEX® latex modified thin set to within a minimum of 1/8". Apply a liberal coat of Hydra-Lock liquid around joints, cracks and protrusions. Embed Proflex 8" reinforcing fabric into the wet Hydra-Lock, cover with a second coat of Hydra-Lock, "sandwiching" the reinforcing fabric. Apply an additional application to prevent pinholes.

##### Drains

Must be of the clamping ring-type with weep holes for thin set application. Drain should be even, level, plumb and fully supported, without movement. Fill all voids with Proflex latex modified thin set to within a minimum of 1/8" from the drain. Apply a liberal coat of Hydra-Lock liquid around and over the bottom drain clamping ring. Embed Proflex 8" reinforcing fabric into the wet Hydra-Lock cover with a second coat of Hydra-Lock, "sandwiching" the reinforcing fabric. Apply an additional application to prevent pinholes. After drying, set the upper clamping ring onto the Hydra-Lock membrane with a continuous bead of 100% Polyurethane caulking. A toilet flange can be treated in the same manner.

### **Cement Substrates**

All concrete substrates should be cured a minimum of 28 days. Smooth steel troweled floors to a fine broom finish. Reinforcement Hydra-Lock has been formulated to perform as a waterproof membrane with reinforcing fabric. As a crack isolation membrane, fabric is typically not recommended. As a waterproof membrane, manufacturer recommends the use of supplied 8" reinforcing fabric to ensure maximum protection at joints, cracks, protrusions, dissimilar materials, and drains.

### **Cement Backer Board**

Follow cement board manufacturer's instructions. Tape and fill joints per manufacturer's directions and "Preparation" section of this data sheet.

### **Plywood and OSB Substrates**

All plywood installations should be interior areas only and protected from exposure to moisture. Skim coat plywood surfaces with Proflex latex modified thin set before membrane application.

### **Membrane Application**

Allow any recently prepared areas to dry. Apply a liberal coat of Hydra-Lock Membrane at a rate of 50 s/f per gallon. Periodically, check the film thickness with a wet film thickness gauge, first wet coat should be applied 30 mils wet thickness. Apply Proflex 8" reinforcing fabric into the wet Hydra-Lock. After the Hydra-Lock turns black, cover with a second coat of Hydra-Lock at 30 mils wet thickness, "sandwiching" the reinforcing fabric. Total Hydra-Lock membrane thickness after drying should be 40 mils.

### **Movement (expansion) joints**

Designed to experience movement, should be provided to comply with TCNA method EJ171. For waterproofing of movement (expansion) joints, the membrane must not be applied unsupported to bridge across expansion joints. The joint must be cleaned to remove any loose debris and an opened or closed – cell backer rod is installed to the joint to the proper depth as specified by designer. 100% Polyurethane sealant or Proflex approved equal is pressed into the joint, coating the sides and leaving the joint flush with the surface. After the sealant is dry, the Hydra-Lock membrane is applied following the "Membrane application" instructions previously. Then ceramic or stone tiles are installed over the membrane, leaving a gap over the joint as specified by the designer. After the tile is set, the joint must be filled as specified by the designer.

### **Ceramic or Stone Application**

Ceramic or stone tile can be installed immediately after the Hydra-Lock membrane has dried to the touch. Proflex recommends a quality ANSI 118.4, 118.11 latex portland cement thin set like Proflex ProStick series mortars. Follow the directions on thin set container for proper application.

### **Curing**

Water testing can usually be done after a minimum of 48 hours at 70° F (21° C) and 50% R.H. Provide adequate protection for Hydra-Lock membrane, even if covered with a ceramic or stone tile application, against exposure to rain, or inclement weather for a minimum of 24 hours at 70° F (21° C) and 50% RH.

### **Cleaning**

Clean tools, hands and equipment with warm soapy water before the material has dried. Material that has dried is difficult to remove, remove while fresh.

## **6. AVAILABILITY**

Proflex Products are available nationwide.

To locate Proflex products in your area, please contact:

Phone: 877-577-6353

Website: [www.proflex.us](http://www.proflex.us)

## **7. WARRANTY**

PROFLEX® Products, Inc. offers a limited warranty for this product when used in accordance with printed specifications. A copy of the limited warranty can be obtained by calling technical services at 877-577-6353 or visiting [www.proflex.us](http://www.proflex.us)

### **Limitations**

When using other than PROFLEX® products in conjunction with PROFLEX® primers, sealers, leveling compounds, or adhesives, PROFLEX® denies any and all responsibility for any ensuing problems and/or damages without prior written authorization from PROFLEX®. In case of accident, injury, spill or exposure, see SDS sheet for information. Consult technical data sheet at [www.proflex.us](http://www.proflex.us) for updated information. The filler will maintain its integrity and performance even when high levels of moisture or water are present. Please see below for recommended sealers if a moisture barrier is required. The foregoing representations are based on the results of our most current product and material testing within a controlled environment and are of a non-obligatory advisory nature only. As such, they do not constitute an express or implied warranty of any kind including the Warranty of Merchantability and/or Fitness for a Particular Purpose. Because we have no control over the actual quality of workmanship,

materials used and worksite conditions, PROFLEX® will in no event be liable for any incidental and/or consequential damages. therefore, we strongly recommend that prior on-site testing be conducted to refer to and study the suitability of the product for the intended purpose. With the release of this technical information sheet all its prior versions become invalid. For warranty and warranty disclaimer information please see our Limited Lifetime Warranty @ [www.proflex.us](http://www.proflex.us)

## 8. MAINTENANCE

None required, but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

## 9. TECHNICAL SERVICES

Technical assistance

Information is available by calling the Technical Support

Toll Free: 877-577-6353

Fax: 863-937-9624

Technical and safety literature: To acquire technical and safety literature, please visit our website [www.proflex.us](http://www.proflex.us)

## 10. FILING SYSTEM

Division 9