

Proflex® Elastomeric self-bonding membranes are composite underlayment consisting of petroleum and rubber based products laminated to a high-strength reinforcing facer fabric. The product has excellent strength and elongation properties designed to be used in a variety of building and remodeling applications.

Proflex® membranes can be used in limited waterproofing applications. The waterproofing feature helps prevent water intrusion (that is, water from above) from penetrating to the substrate below. Waterproofing membranes are part of the entire waterproofing system and building envelope protection.

### Waterproofing Application Instructions:

Proflex® elastomeric membranes, when properly installed in accordance with the following installation guidelines, will provide years of protection for finish flooring installations. In addition to these instructions, installers shall also refer to the most current edition of the following publications:

- American National Standards Institute (ANSI) publications.
- Tile Council of America (TCA) Handbook for Ceramic Tile Installations
- The Marble Institute of America (MIA) Dimension Stone Design Manual.
- Manufacturer's instructions of selected setting materials, substrates, sub-floors, or other manufacturer's being used in the total, or any part of, an installed flooring system with Proflex®

Consult your selected manufacturer of these above mentioned components to ensure selected products are compatible with Proflex® elastomeric membranes. Or visit our website at [www.proflex.us](http://www.proflex.us) and click to our link listing our approved setting materials that have been approved for use with Proflex®

#### Exclusions:

Important: Only selected Proflex membranes are approved for use in waterproofing applications. Proflex membranes are not considered a primary waterproofing product and should not be used for waterproofing over an occupied space (refer to TCNA roof deck F103-09) or the latest edition of the TCNA Handbook. Contact your Proflex representative or visit our website at [www.proflex.us](http://www.proflex.us) to verify the suitability of Proflex to your specific application.

Proflex® should not be installed without contacting technical support for including, but not limited to, the following conditions:

- Expansion or structural design joints in concrete slabs
- Out of plane, or structural movement cracks.
- Horizontal cracks that exceed 3/8 (10mm)
- Areas where moisture vapor or hydrostatic pressure exceeds 5#-1000sqft-24hrs, as tested using a Calcium Chloride (CaCl) test.
- Substrates installed not in compliance with industry standards.
- Substrates that have not been approved by Proflex in this document, or by written authorization from a Proflex representative.

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



### Surface Preparation of selected substrates:

#### Concrete Substrates

- Concrete shall be in place a minimum of 28 days.
- Concrete shall be installed in compliance with industry standards listed on page 1 of these instructions, and concrete manufacturer's instructions. The surface shall have a smooth finish and be free from voids, sharp protrusions, and loose aggregate.
- Substrate temperatures should be between 45°F and 90°F
- Concrete shall be structurally sound, dry, clean, and free of dirt, oils, grease, loose peeling paint, concrete sealers or curing compounds, cement laitance, and other similar bond inhibiting materials.
- Rough or uneven surfaces should be made smooth with a Latex Portland cement underlayment to provide a wood float or better finish. Do not level with asphalt based products.
- Concrete should be tested for both moisture vapor transmission and hydrostatic pressure, by use of a Calcium-Chloride (CaCl) test. Consult technical support if test readings exceed 5 # per 1000sqft-24hours.

Installation Guideline for Proflex Self-Adhered Membranes over urethane coatings such as Vulkem350/351, the following additional steps are required for exterior application:

- Clean all excess sand and other debris from floor using a broom and a shop vacuuming and a light wipe across surface using denatured alcohol and a rag. Repeat shop vacuuming. This is required.
- Perform a pull test prior to installation (apply enough PR-27 primer to cover an approximate one square foot area (use a THIN layer of primer. More is not better), allow enough time to dry to a tacky finish then apply the Proflex sample. Roll membrane to make sure the piece is adhered completely. Wait 10 minutes and then attempt to pull up sample. If the sample releases from the floor with little resistance, please contact Proflex for additional information. If the sample is difficult to remove you have adequate bond (adequate bond is approximately 50 p.s.i. per square foot).
- Repeat the above cleaning then follow **Priming and Installation** instructions once adequate bond has been achieved.
- If bonding to urethane membranes where sound control is not needed, Proflex would recommend using HydraSeal with either PS-42 thinset or SuperStick thinset directly to the urethane coating after above mentioned cleaning has been performed. Contact Proflex Technical services for detail.
- It is extremely important to keep the tile installation ¼" off walls and other vertical areas to allow for expansion and contraction.

#### Other Substrates

- All other substrates and or sub-flooring systems shall be installed in a manor approved by both the product manufacturer and using an appropriate installation method as recommended in the most current edition of the publications mentioned in page 1, of Application Instructions.
- Concrete Patching and Leveling compounds should be applied only after a consultation with Proflex technical staff. (1-877-577-6353) or at [technical@proflex.us](mailto:technical@proflex.us)
- Substrates should be tested for both moisture vapor transmission and hydrostatic pressure, by use of a Calcium-Chloride (CaCl) test. Consult technical support if test readings exceed 5 # per 1000sqft-24hours.
- Membranes can be overlapped 3" producing a shingle effect or "butt the seams and use the Proflex HydraSeal (6" wide, the thickness of a U.S. Dime). Contact Proflex Technical services for details.

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# PROFLEX® ELASTOMERIC MEMBRANE WATERPROOFING INSTRUCTIONS

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ELASTOMERIC MEMBRANE WATERPROOFING INSTALLATION INSTRUCTIONS

## Priming:

- Stir or shake Proflex Primer thoroughly.
- Substrate temperature should be above 45°F when primer and membrane are applied.
- Damp mop substrate prior to application, changing water frequently.
- Keep area well ventilated.
- Stir primer thoroughly before applying. Use a long-nap roller, brush, squeegee, or other suitable method to apply.
- Apply an even coat to the substrate and let dry. Primer has dried satisfactorily when the surface is tacky but does not transfer when touched.
- Highly porous and absorbent surfaces such as concrete block may require two coats of primer. Let each coat dry thoroughly before applying membrane.

## Installation:

- Directional alignment is critical and placement of the membrane will be made easier by the following procedure:
  1. Position the membrane over the area to be treated. Unroll the membrane, with the release sheet still attached, to establish direction, length and layout. Install Proflex RST (Rubber Seam Tape) at all seams and butt edges. Membranes should break on center of RST to insure continuous waterproofing. Proflex HydraSeal can be substituted for the RST but should be a 6" wide roll over the seams of the Proflex membranes.
  2. Roll up ½ of the membrane, leaving the other half unrolled. Place yourself on the side where the membrane was rolled up. Cut the release sheet from the rolled-up portion of the membrane and pull it toward you. Make certain of the membrane position and carefully pull off the release paper. Roll up the second half of the membrane and follow the same steps described above. Use Proflex RST (Rubber Seam Tape) underneath membrane where all seamed edges meet or the Proflex HydraSeal over seams.
  3. Make certain of the membrane position and smooth out wrinkles and air pockets with the flat side of a trowel. Roll with 75 to 100-lb. roller to ensure a positive contact with the substrate and RST.
  4. Position the next roll to butt the leading edge of the previous roll. The leading edge must be pressed with the flat side of a trowel or roller after the release paper is peeled off.
- End seams that are double-cut or butt joined and all terminations must be coated with urethane sealant applied ¼" thick x 1" wide. Let the sealant cure overnight before applying tile.

## Corner and Wall Treatments:

- Turn Proflex® up the vertical planes a minimum of 6" above potential flood point.
- When paralleling a wall in the direction of the roll, pre-measure and cut membrane to desired length.
- Position the membrane with desired amount of upturn and crease the membrane to provide a tight corner.
- With the membrane in place, fold it in half lengthwise so it faces the wall. Carefully cut the release paper at the fold. Position yourself and pull it toward you, exposing and unrolling the black portion of the membrane.
- Follow the same procedure with the other half of the membrane in the opposite direction. Carefully crease the membrane at the wall with the flat side of a trowel. Corners may be folded or cut.
- Seal all cuts with a urethane sealant. Allow sealant to cure overnight.

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# PROFLEX® ELASTOMERIC MEMBRANES WATERPROOFING INSTRUCTIONS

## Drains and Protrusions:

- Apply Proflex® membrane around drains and place a 1/8" thick x 1" wide bead of urethane sealant between the membrane and the clamping ring. Let sealant cure overnight.
- An alternate method for drains and protrusions is to apply urethane sealant, around the drain or protrusion and overlap PROFLEX® a minimum of 2". Urethane sealant should be applied vertically on protrusions to a height of 6" above potential flood plane. Seal all cuts with a urethane sealant. Allow sealant to cure overnight.

## Water/ Flood Testing:

A water test 48 hours prior to tile installation is recommended for shower bases, fountains, and other areas subject to prolonged water exposure.

## Setting Materials

- All mortars and thin-sets must meet or exceed ANSI 118.11.
- Urethane Wood adhesives may be used for wood installations, consult manufacturer for product suitability and approval for use with Proflex elastomeric membranes
- Consult selected mortar or thin-set manufacturer for product suitability and approval for use with Proflex elastomeric membranes
- Use appropriate notched trowel for application of setting materials in compliance with ANSI, TCNA, MIA, NWF, and setting materials guidelines and recommendations.
- Visit our website at [www.proflex.us](http://www.proflex.us) and click to our link listing our approved setting materials that have been approved for use with Proflex®

## Finish Surface Installation

- Apply finish flooring in compliance with the publications listed in page 1 under installation instructions, for methods of installation over crack-isolation membranes.
- Do not install any defective, damaged, or any finish flooring surface not for its intended use.
- The installation of this product does not eliminate the need for movement joints, including perimeter joints with a tiled surface. Perimeter expansion of 1/4" must be maintained at all times. Use Proflex PIB (Perimeter Isolation Barrier) to assist in maintaining the expansion gap. Consult the TCNA handbook for other movement joint applications. The product is not for use over expansion joints, or structural (out-of-plane) movement cracks.
- Impervious tile (less than 0.5% absorption) may require a 48-hour cure prior to grouting. The mortar will be sandwiched between two non-absorptive materials and will require additional cure time.

## Health and Safety:

Read before use. Refer to MSDS for additional information

## Caution:

May cause slight irritation. Contains: Asphalt CAS# 8052-42-4, Petroleum Oil CAS# 64742-04-7, Styrene Butadiene Polymer CAS# 90003-55-8, Proprietary ingredient, polyester fill.

Repeated skin contact with rubberized asphalt may result in slight irritation. Avoid prolonged or repeated exposure to skin. Eye contact with residue on hands may cause irritation.

## Discharge and Disposal

Waste from this product is not defined as hazardous. Dispose of waste in accordance with applicable Federal, State, and Local Regulations.

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