

PROFLEX™ RCU

INSTALLATION GUIDELINES

INSTALLATION INSTRUCTIONS

Proflex™ RCU 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.
- Manufacturers instructions of selected setting materials, substrates, sub-floors, or other manufacturers 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™ RCU membranes. Or visit our website at www.proflex.us and click to our link listing our approved setting materials that have been approved for use with Proflex™.

Surface Preparation of selected 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 40°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 indicate a reading greater than 5 # per 1000sqft-24hours.
- Plywood must be a minimum of two (2) layers 5/8" exterior grade plywood.
- Plywood shall be securely fastened in accordance with industry standards as listed on page 1 of this publication.
- Maintain a 1/8" gap between plywood sheets and all surfaces they abut.
- Joints in the top layer should be offset from the joints on the bottom layer.
- It is the responsibility of the installer to verify the deflection of the floor structure and sub-floor does not exceed L/360 of the span under combined live or dead loads.
- The substrate 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 indicate a reading greater than 5 # per 1000sqft-24hours.

Perimeter Isolation Strip

- Install the precut 3/4" wide, 6mm thick perimeter isolation barrier vertically around the perimeter of the entire floor including any openings or protrusions such as electrical boxes, heating ducts, cold air returns, columns or pipes in the subfloor installation. The perimeter isolation strip **MUST be installed prior** to Proflex™ RCU products being installed.
- Remove the release liner from the self-adhesive backing and place flat against the wall, flush to the floor.
- After positioning, press the isolation barrier firmly into place at all wall and vertical partitions surrounding the perimeter.
- Never mechanically fasten the isolation barrier, as this will severely diminish the acoustical performance of the entire sound rated floor system. After the finished floor is installed the perimeter isolation barrier should be trimmed flush with the surface of the finished floor.

Adhesive Application

- Use the appropriate notched trowel to ensure 100% coverage of the backing of the Proflex™ RCU underlayment being used.
- Install the RCU underlayment into the adhesive while the adhesive is still fresh. The Proflex™ RCU products, like other non-pours backed material and stiffer materials with an inherent memory, may require the installer to allow 10-15 minutes of drying time (dependant on temperature and moisture conditions) for the spread adhesive to tack up before setting the underlayment. Proper adhesive transfer to the backing should be checked periodically the adhesive transfer under the Proflex™ RCU products.

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INSTALLATION INSTRUCTIONS (Continued)

Application for direct bonded ceramic tile flooring

- Cut the RCU material to the desired length and position the material in the space to be covered.
- Butt the RCU material against the perimeter isolation barrier already installed at the floor/wall junction.
- Pull the loose laid material back at least half the length of the cut material. Using a properly sized U or V-notched trowel (minimum 3/32") apply Proflex™ RCU-Adhesive, or an approved 100% Polyurethane based wood flooring adhesive (contact technical support for approved Polyurethane adhesives). Gently place rolled back section into the bed of adhesive and imbed it into the adhesive.
- Repeat the process for the other half of the sheet, making sure there is 100% adhesive coverage on the subfloor.
- Roll in both directions with a 75 or 100# floor roller to remove any entrapped air

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™ RCU membranes.
- Consult selected mortar or thin-set manufacturer for product suitability and approval for use with Proflex™ RCU membranes.
- Use appropriate notched trowel for application of setting materials in compliance with ANSI, TCNA, MIA, NWFA, and setting materials guidelines and recommendations.
- Visit our website at 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. **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.

For additional information and technical support, Contact Proflex Products

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