DESCRIPTION
PROFLEX RU-125 is composed of blended recycled synthetic fibers designed to reduce the transmission of sound and to stabilize and disperse normal or seasonal fluctuations in relative humidity that may affect moisture content in a finish flooring surface over a subfloor system.

TYPICAL USE
PROFLEX RU-125 is designed for use with glue-down or mechanically fastened hardwood or engineered wood floors and a variety of tile surfaces. The underlayment is designed to be used over a variety of substrates and under certain circumstances, can be placed over existing finish surfaces, reducing the need to tear out old flooring associated with remodeling projects. (Contact technical support for specific information.)

ADVANTAGES
• Reduce the transmission of sound sources measured by STC and IIC ratings
• Smooth over minor imperfections in subfloors
• Improves the thermal insulation properties of flooring assemblies
• Provides resistance to the transferring of cracks from a concrete subfloor in ceramic installations.
• Provides a cushion to ease impact from walking on wood floors.
• Anti-microbial additive inhibits mold growth.
• Constructed with 100% recycled material. Product applicable to LEED categories MRC 4.1 and MRC 4.2.
• Has been certified by Indoor Advantage as Gold Rated for low-emission materials.

SUBSTRATES AND FINISH SURFACES
Concrete slabs, plywood sub floors, backer boards, existing finish surfaces. (Note: See application instructions for specific installation methods and limitations.) Hardwood flooring, Engineered Wood Flooring, Ceramic Tile, Porcelain Tile, Natural Stone, Slate, Marble, Brick, (Contact Technical Support for other finish surface suitability.)

PHYSICAL and TECHNICAL DATA

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials</td>
<td>100% Recycled Synthetic Fibers</td>
</tr>
<tr>
<td>Weight</td>
<td>25 oz./ square yard</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.11 inches</td>
</tr>
<tr>
<td>Density</td>
<td>18.9 lbs. / ft^3</td>
</tr>
<tr>
<td>R-Value @ 0.11&quot;</td>
<td>0.46 hr-ft²-degF/Btu (4.19 in)</td>
</tr>
<tr>
<td>Flammability</td>
<td>Meets or Exceeds CSPC FF 1-70</td>
</tr>
<tr>
<td>Compression Resistance @ 25%</td>
<td>23.2 psi</td>
</tr>
<tr>
<td>Compression Resistance @ 30%</td>
<td>37.0 psi</td>
</tr>
<tr>
<td>Compression Resistance @ 50%</td>
<td>219.6 psi</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>74.8 lbs., width 63.3 lbs.</td>
</tr>
</tbody>
</table>

Sound Performance
- Sound Transmission Class (STC) 53*
- Impact Insulation Class (IIC) 52**
- Field Impact Insulation Class (FIIC) 60^  

* Tested STC as to ASTM E90 - using ceramic tile over wood subfloor with 1 1/2" of Gypcrete
** Tested IIC as to ASTM E989, ASTM E492 using ceramic tile over wood subfloor with 1 1/2" of Gypcrete
^ Tested FIIC with ceramic tile over 8" concrete subfloor with no ceiling assembly

TRAFFIC PERFORMANCE
Robinson Test (ASTM C627) as Extra Heavy, for high impact use in food plants and kitchens when using porcelain tile and epoxy grout.
Robinson Test (ASTM C627) as Light Commercial, for office spaces, reception areas, and bathrooms, when installed using residential tile, and latex modified thinset and grout.
**PROFLEX RU-125**

**INSTALLATION INSTRUCTION METHODS AND GUIDELINES**

**INSTALLATION INSTRUCTIONS**

Proflex® RU-125 membrane, when properly installed in accordance with the following installation guidelines, will provide years of protection for finishing 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 Installation. The National Wood Flooring Association (NWFA) publications. 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® RU-125. 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 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 penetrating 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 underlay to provide a wood float or better finish. Do not level with asphalt based products. Any cracks of voids 1/16” or greater should be filled with an approved filler material. Plywood must be a minimum of two (2) layers 5/8” exterior grade plywood. Plywood must be securely fastened in accordance with industry standards. Maintain a 1/8” gap between plywood sheets and all surfaces they abut. Joints in the top layer shall be made with a T-shape joint to allow the joint to be hidden from view. The installation of the final surface shall be checked to verify the deflection of the floor structure and subfloor does not exceed 1/360 of the span under combined live or dead loads. All substrates should be tested for both moisture vapor transmission and hydrostatic pressure, by use of a Calcium-Chloride (CaCl2) test. Consult technical support if test readings indicate a reading greater than 5 # per 1000sqft.24 hours.

**FOR CERAMIC / PORCELAIN TILE (8’ OR LARGER) OVER CONCRETE SUBFLOOR**

Setting material for RU-125 to subfloor and for Tile to RU-125 shall be a polymer-modified mortar ANSI A118.11 or greater. Use a 1/4” x 1/4” x 1/4” U-notch trowel to set the RU-125 to subfloor. For finish surfaces, use an appropriate notched trowel to achieve a 95% coverage (min. of 1/4” x 3/8” x 1/4”).

**INSTALLATION METHOD**

Roll out RU-125 and trim to fit sub-floor. Run the RU-125 to the edge of the sub-floor leaving no gaps. Pull back pre-cut pieces. Dampen the sub-floor and the bottom layer of RU-125 with a sponge or mist-sprayer. Do not over saturate. Apply thinset to sub-floor first using the flat side of the trowel, then comb back with the notched end in a left to right motion. The thinset shall be applied enough to allow installation of the RU-125 before the mortar begins to set. Ensure there will be enough mortar to achieve 95% transfer to RU-125. Unroll the RU-125 into the thinset. Use a 75lb roller in diagonal directions to set the RU-125 to the mortar. But edges together, do not overlap. Do not allow traffic on RU-125 for 16 hours. Allow RU-125 to set for 16 hours prior to installation of tile.

**FINISH FLOORING INSTALLATION**

Dampen RU-125 with a sponge or mist-sprayer. Do not over saturate. Use an appropriate notched trowel to achieve a 95% coverage (min. of 1/4” x 3/8” x 1/4”). Mortars shall be ANSI A118.11 or greater. Apply mortar into RU-125 first using the flat side of the trowel, then comb back with the notched end in a left to right motion. Press tile into the mortar using a front to back motion perpendicular to the spread of the thinset. Mortar coverage shall meet ANSI A108.5.3.3 (requiring back buttering of each tile, and achieving 95% coverage.) Do not allow traffic on flooring for 16 hours after installation. Grout joints shall be 3/16” or greater.

**FOR INSTALLATION OF GLUE-DOWN ENGINEERD OR SOLID WOOD TO A CONCRETE SUBSTRATE**

Use a wood manufacturer approved adhesive below and above the RU-125 Use a 3/16” x 3/16” square or U notch trowel.

**INSTALLATION INSTRUCTIONS**

Roll out RU-125 and trim to fit sub-floor. Run the RU-125 to the edge of the sub-floor leaving no gaps. Pull back pre-cut pieces. Apply adhesive to sub-floor as per adhesive manufacturer instructions. Unroll the RU-125 into the adhesive. Use a 75lb roller in diagonal directions to set the RU-125. But edges together, do not overlap. Do not walk on rolled areas. Allow adhesive to cure as per manufacturers instructions.

**FINISH FLOORING INSTALLATION**

Finish flooring shall be installed as per wood manufacturers instructions, and in compliance with NWFA guidelines.

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