

## 1. PRODUCT NAME

RU-125 (Recycled Fiber Underlayment)

## 2. MANUFACTURER

PROFLEX® Products, Inc.  
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Haines City, FL 33844  
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## 3. PRODUCT 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.

### Uses

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

- Reduces 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 from 100% recycled material. Product applicable to LEED categories MRC 4.1 and MRC 4.2
- Has been certified by Indoor Advantages as Gold Rated for low-emission materials.

### Suitable Substrates and Finish Surfaces

- Concrete slabs
- Plywood sub-floors
- Backerboards
- 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.

## 4. TECHNICAL DATA

Property	Result
Materials	100% Recycled Synthetic Fibers
Weight	25 oz./ square yard
Thickness	0.11 inches
Density	18.9 lbs. /ft <sup>3</sup>
R-Value @ 0.11"	0.46 hr-ft <sup>2</sup> -degF/Btu (4.19)
Flammability	Meets or Exceeds CSPC FF 1-70
Compression Resistance @ 25%	23.2 psi
Compression Resistance @ 30%	37.0 psi
Compression Resistance @ 50%	219.6 psi
Tensile Strength	74.8 lbs., width 63.3 lbs.

**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.

#### Sound Performance

<b>Sound Transmission Class (STC)</b>	53*	*Tested STC as to ASTM E90 - using ceramic tile over wood subfloor with 1½" of Gypcrete
<b>Impact Insulation Class (IIC)</b>	52**	**Tested IIC as to ASTM E989, ASTM E492 using ceramic tile over wood subfloor with 1½" of Gypcrete
<b>Field Impact Insulation Class (FIIC)</b>	60^	^Tested FIIC with ceramic tile over 8" concrete subfloor with no ceiling assembly. ^Tested FIIC with 3/8" Engineered Wood flooring over 8" Concrete Subfloor, no ceiling assembly

## 5. INSTALLATION

### Installation Instructions

PROFLEX® RU-125 membrane, 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 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](http://www.proflex.us) and click 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 40oF and 90oF 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. Any cracks or 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 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. All 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 indicate a reading greater than 5 # per 1000sqft-24hours.

**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 re-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 A108.5.3,3,3 (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 Ceramic / Porcelain Tile (8" or Larger) over Plywood Subfloor

Setting material for RU-125 to a subfloor of Exterior Grade Plywood 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") Subfloor must meet ANSI requirements. 16" on center 2" x 10" minimum joist, total subfloor thickness 1 1/8" with exterior plywood as the top surface. 24" on center truss or I-joist, total subfloor thickness 1 1/2" with exterior plywood as the top surface.

## 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 subfloor 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 A108.5.3,3,3 (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 Engineered 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

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.

## Instructions

Apply adhesive to sub-floor as per adhesive manufacturer's 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 manufacturer's instructions.

**Finish Flooring Installation**

Finish flooring shall be installed as per manufacturer's instructions, and in compliance with NWFA guidelines.

**For Installation of Glue-Down Engineered or Solid Wood to a Plywood 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's 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 manufacturer's instructions.

**Finish Flooring Installation**

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

**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**

5 year, 10 year and Limited Lifetime warranties are available. Contact PROFLEX® Technical Services for specific warranty information. PROFLEX® Products warrants that this product meets applicable ANSI standards in force at the time of manufacture.

**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