

PROFLEX™ LV-100

2.5mm CORK/EVA SOUND
CONTROL UNDERLAYMENT

PRODUCT DESCRIPTION

Proflex LV-100 is an advanced composite sound control underlayment utilizing a combination of 100% recycled products to achieve superior IIC (Impact Insulation Class) and STC (Sound Transmission Class) sound reduction ratings. The product is also easy to install using a direct bond method, and is compatible with a variety of substrates

FEATURES AND BENEFITS

Proflex LV-100 offers an industry leading sound reduction in a single layer membrane product. LV-100 typically meets or exceeds most community building code, developer, or condominium requirements. LV-100 also installs quickly. It has a thickness (2.5 mm / 0.08 in.) which minimizes transition issues.

In addition to the sound benefits. The product has been engineered and produced in a manor that meets several criteria supporting green / environmental building requirements. Using LV-100 will assist a builder in qualifying for LEED™ Green Building Rating System in the following areas:

- MR 4.1 5% Recycled Content of total building materials (post consumer + 1/2 of post industrial)
- MR 4.2 10% Recycled Content of total building materials (post consumer + 1/2 of post industrial)
(LV-100 product is 0% post consumer and 85% post industrial recycled content by weight)
- EQ 4.1 Low Emitting Materials, Adhesives, and Sealants (Adhesives Specified meet SCAQMD Rule 1168)

PHYSICAL PROPERTIES AND TECHNICAL PERFORMANCE

Membrane Composition: Cork granules and grinded recycled sponge EVA, agglomerated with a polyurethane binder.

Membrane Thickness: 2.5 mm (0.08in) thick.

SOUND REDUCTION PERFORMANCE DATA

(STC) Sound Transmission Class as tested to ASTM E90-04 / E413-04

(IIC) Impact Insulation Class as tested to ASTM E492-04 / E 989-06

STC rating 55db IIC rating 55db

Tests were performed as follows: * 8" concrete slab with NO CEILING assembly finished floor of 1/8" luxury vinyl tile over Proflex LV-100 underlayment.

APPLICATIONS

MULTI-FAMILY HOUSING	APARTMENT / CONDOS	MILITARY HOUSING	HOSPITALS
STUDENT DORMATORIES	HOTELS / HOSPITALITY	OFFICE BUILDINGS	ASSISTED LIVING FACILITIES

PACKAGING AND COVERAGES

PROFLEX LV-100

2.5 mm x 48" x 50' 200 sq. ft. per roll

SEE REVERSE SIDE FOR INSTALLATION INSTRUCTIONS

050412

PROFLEX PRODUCTS INC.
Phone: 877-5PROFLEX
(877-577-6353)
Web: www.proflex.us



PROFLEX™ LV-100

LV-100 GLUE DOWN INSTALLATION INSTRUCTIONS

SURFACE PREPARATIONS

All subfloor work should be done in accordance with the recommended procedures as published by Resilient Flooring Institute and/or the specific manufacturer of resilient flooring being installed. Concrete subfloors should be level, properly sloped and structurally sound. Wood subfloors need to be structurally sound, level and be properly prepared to the smoothness required for resilient flooring. Inspect concrete subfloors for any open cracks and fill with a high-grade epoxy filler. Gypsum concrete subfloors must be free of structural cracks and prior to the application of an adhered underlayment or finish floor, must be sealed. Remove any excess lumps or residue from the subfloor that may interfere with the installation of the PROFLEX LV-100 underlayment or would possibly "telegraph" through the finished flooring.

TESTING FOR MOISTURE

If a concrete subfloor is newly constructed and/or on or below grade, test the subfloor for excessive moisture transmission prior to the installation of the LV-100 underlayment. If excessive moisture is present (normally >5 lbs. per 1000 s/f in 24hrs with a Calcium Chloride test) in the subfloor, corrective action must be taken. Consult the project architect, flooring manufacturer and/or the most recent Resilient Flooring Institute Installation Manual for methods and materials for dealing with excessive subfloor moisture conditions.

PERIMETER ISOLATION

It is important that the finished flooring not directly contact the perimeter walls or vertical partitions of the entire floor area, including any openings or protrusions such as electrical boxes, heating ducts, cold air returns, columns or pipes in the subfloor installation. Perimeter Isolation can be achieved by leaving at least a ¼" gap between finished flooring and the fixed partitions or walls. As an alternative: a perimeter isolation barrier strip can be affixed vertically to the walls or partitions and be trimmed flush with the surface of the finished floor when the floor is installed. (Contact technical support for details). See section under Applying Glued Down Commercial Sheet Vinyl, VCT, VET, LVT for details regarding finish trims and maintaining Perimeter Isolation.

LV-100 GLUE DOWN INSTRUCTIONS

Cut the LV-100 underlayment roll material to the desired length and position the material in the space to be covered.

Butt the LV-100 underlayment material or against the wall or the (PIB) perimeter isolation barrier material 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 1/16") apply either:

- 1.) A 100% Polyurethane Adhesive Like the Proflex PWA 200 when applying over non or limited porosity surfaces.
Note: The 100% Polyurethane Adhesive is recommended for maximum IIC performance.
- 2.) A Premium Quality Multi-Purpose Adhesive Like the Proflex PS77 Adhesive when applying over more porous surfaces.
- 3.) A Clear Thin Spread (Acrylic) Adhesive like the Proflex PRO-STICK 88 adhesive can also be used (*use the recommended trowel size for low porosity substrates and allow the adhesive to "flash off"*).

Place the LV-100 underlayment into the bed of adhesive applied. Repeat the process for the other half of the sheet, rolling in both directions with a 75# or 100# sectional floor roller.

Proceed to cover the entire room, making sure the sheets are tightly butted together, without gaps. *Open seams and gaps will "telegraph" through most vinyl flooring, so the underlayment work must be as smooth and well seamed as possible.* Roll the floor area in both directions using a 75# or 100# roller to ensure any entrapped air or bubbles are removed. *Never mechanically fasten the sheets to the subfloor, as this will severely diminish the acoustical value of the product.*

After completion, the LV-100 underlayment should cover the entire floor area without gaps and be securely bonded with the joints tightly butted.

APPLYING GLUED DOWN COMMERCIAL SHEET VINYL, VCT, VET, LVT

Once the underlayment is firmly bonded to the subfloor and does not move or shift with normal foot traffic or work activity (from 1 hour to 12 hours depending on adhesive used and site conditions) Follow the manufacturer's recommended instructions for installing the finished floor, using the adhesive and trowel size specified. *Note: The LV-100 underlayment has very limited porosity, so wet lay adhesives will take longer to fully cure.*

ADDITIONAL INSTRUCTIONS

Trim the Perimeter Isolation Barrier material, if it was previously installed, flush with the surface of the finished floor. If a rigid baseboard or shoe molding detail is required, leave a minimum 1/8" gap between the finished floor and the bottom of the quarter round or baseboard molding. This gap can be filled with a non-hardening, color matching, paintable or clear Acoustical Grade Sealant. *Note: After installation the floor needs to be protected from potential damage by other trades. Do not drag heavy objects across floor. Plywood or other rigid materials should be used to protect the flooring*



LV-100

LV-100 FLOATING FLOOR INSTALLATION INSTRUCTIONS

SURFACE PREPARATIONS

All subfloor work should be done in accordance with the recommended procedures as published by Resilient Flooring Institute and/or the specific manufacturer of resilient flooring being installed. Concrete subfloors should be level, properly sloped and structurally sound. Wood subfloors need to be structurally sound, level and be properly prepared to the smoothness required for resilient flooring. Inspect concrete subfloors for any open cracks and fill with a high-grade epoxy filler. Gypsum concrete subfloors must be free of structural cracks and prior to the application of an adhered underlayment or finish floor, must be sealed. Remove any excess lumps or residue from the subfloor that may interfere with the installation of the PROFLEX LV-100 underlayment or would possibly "telegraph" through the finished flooring.

TESTING FOR MOISTURE

If a concrete subfloor is newly constructed and/or on or below grade, test the subfloor for excessive moisture transmission prior to the installation of the LV-100 underlayment. If excessive moisture is present (normally >5 lbs. per 1000 s/f in 24hrs with a Calcium Chloride test) in the subfloor, corrective action must be taken. Consult the project architect, flooring manufacturer and/or the most recent Resilient Flooring Institute Installation Manual for methods and materials for dealing with excessive subfloor moisture conditions.

PERIMETER ISOLATION

It is important that the finished flooring not directly contact the perimeter walls or vertical partitions of the entire floor area, including any openings or protrusions such as electrical boxes, heating ducts, cold air returns, columns or pipes in the subfloor installation. Perimeter Isolation can be achieved by leaving at least a ¼" gap between finished flooring and the fixed partitions or walls. As an alternative: a perimeter isolation barrier strip can be affixed vertically to the walls or partitions and be trimmed flush with the surface of the finished floor when the floor is installed. (Contact technical support for details). See section under Applying Floating Vinyl for details regarding finish trims and maintaining Perimeter Isolation.

LV-100 FLOATING FLOORING INSTRUCTIONS

Cut the LV-100 underlayment roll material to the desired length and position the material in the space to be covered.

Determining Whether to Glue Down or Loose-Lay the LV-100 Underlayment

If the finished flooring product is 3mm (.118") or more thick and more of a rigid plank or tile rather than a "pliable" sheet (easy to roll up), it may be possible to loose-lay or "float" LV-100. If the underlayment is to be loose laid, the seams should be securely taped and it may also be advisable to bond it to the subfloor at the perimeter, doorways and or areas that transition into other flooring materials, using either an adhesive or commercial grade double faced tape.

If the finished flooring product is a more "pliable" sheet material (easy to roll up) or a tile or plank product that is thinner than 3mm (.118"), it is recommended that the underlayment be fully adhered to the subfloor. To do so, pull the loose laid material back at least half the length of the cut material. Using a properly sized notched trowel U or V-notched trowel (minimum 1/16") apply either:

1.) A 100% Polyurethane Adhesive Like the Proflex PWA 200 when applying over non or limited porosity surfaces.

Note: The 100% Polyurethane Adhesive is recommended for maximum IIC performance.

2.) A Premium Quality Multi-Purpose Adhesive Like the Proflex PS 77 Adhesive when applying over more porous surfaces.

3.) A Clear Thin Spread (Acrylic) Adhesive like the Proflex PS 88 adhesive can also be used (*use the recommended trowel size for low porosity substrates and allow the adhesive to "flash off"*).

Place the LV-100 underlayment into the bed of adhesive applied. Repeat the process for the other half of the sheet, rolling in both directions with a 75# or 100# sectional floor roller.

Proceed to cover the entire room, making sure the sheets are tightly butted together, without gaps. *Open seams and gaps will "telegraph" through most vinyl flooring, so the underlayment work must be as smooth and well seamed as possible.* Roll the floor area in both directions using a 75# or 100# roller to ensure any entrapped air or bubbles are removed. *Never mechanically fasten the sheets to the subfloor, as this will severely diminish the acoustical value of the product.*

After completion, the LV-100 underlayment should cover the entire floor area without gaps and be securely bonded with the joints tightly butted.

APPLYING FLOATING VINYL

Once the underlayment is installed on the subfloor, care should be exercised too avoid having it move or shift during the installation of the finished flooring. Follow the manufacturer's recommended instructions for installing the finished flooring product.

Note: If the flooring manufacturer requires their product to be "perimeter glued" it is recommended that LV-100 product be fully adhered to the subfloor.

ADDITIONAL INSTRUCTIONS

Trim the Perimeter Isolation Barrier material, if it was previously installed, flush with the surface of the finished floor. If a rigid baseboard or shoe molding detail is required, leave a minimum 1/8" gap between the finished floor and the bottom of the quarter round or baseboard molding. This gap can be filled with a non-hardening, color matching, paintable or clear Acoustical Grade Sealant. *Note: After installation the floor needs to be protected from potential damage by other trades. Do not drag heavy objects across floor. Plywood or other rigid materials should be used to protect the flooring from damage until all other work is done and/or the space is ready for occupancy.*