

1. PRODUCT NAME

SLU (Self-Leveling Underlayment)

2. MANUFACTURER

PROFLEX® Products, Inc.
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3. PRODUCT DESCRIPTION

PROFLEX® SLU is a cement based self-leveling underlayment providing a smooth and flat concrete surface. SLU installs quickly and can be delivered via pump or pouring methods. The self leveling properties eliminate the need for sanding, grinding, and troweling. **For interior use only over primed concrete or exterior grade plywood substrates.**

Advantages

- Ready to mix product - mixes with water.
- Rapid setting formula, foot traffic in as little as 4 hours.
- Provides a compatible bonding surface for tile, carpet, and other adhesives
- Eliminates the need for grinding and troweling.
- Reduced weight and superior strength.

Limitations

- For interior applications only.
- Apply only when surface and ambient temperatures will be 50°F and above for 12 hours and maintain this temperature for 24 hour after application.
- Adding excess water will result in surface whitening and bonding issues.
- To determine the suitability of the substrate surface for adhesion and the finish for appearance including texture and color, install a 10' by 10' test patch at the maximum designed thickness using the techniques, equipment, and materials to be used, for approval by the owner, architect, or contractor prior to proceeding with the job.
- All control and expansion joints must be carried through.
- Concrete must be a minimum of 7 days old.
- Concrete must be structurally sound meeting local building codes.
- Do not apply over dusting or unsound concrete.
- Do not re-temper.
- Do not expose SLU to chemical attack.
- Do not expose SLU to freeze/thaw conditions.
- Substrate temperatures must be 50°F or above.
- For temperatures higher than 85°F consult PROFLEX® Technical Services.

Packaging / Coverage

50 lb. bag, 56 bags per pallet.

Coverages are approximate, but the SLU will yield 55 sq. ft. at 1/8" thickness.

PROFLEX® SLU PRIMER Required: 1 gallon container

Coverage 200-300 sq.ft. per gallon using a 3/8" Nap Roller. Actual coverage will vary with porosity of substrate.

Shelf-Life

Factory sealed containers are guaranteed to be of first quality when stored between 45°F and 90°F.
PROTECT PRIMER FROM FREEZING.

4. TECHNICAL DATA

Mix Ratio	<i>5.5 - 6.0 qt. Water / 50 lb. bag.</i>
Flowing Time	15 minutes
Working Time	30 minutes
Setting Time	Foot traffic 12 - 24 hrs.
Main Binder	<i>Portland Cement</i>
Additives	<i>Proprietary</i>
Compressive Strength	<i>4200 psi</i>
Flexural Strength	<i>1000 lbs. / sq. in, at 28 days</i>
Flowability (2 minutes)	<i>6 - 7 inches</i>
Liquid Merge Time	<i>10 minutes</i>

5. INSTALLATION

Caution

Product contains Portland Cement. Avoid contact with skin. Wash exposed areas thoroughly with water. Eye exposure, flush with water for 15 minutes and seek immediate medical attention. Keep this product out of reach of children and pets.

Surface Preparation

Surfaces must be structurally sound and free from all bond inhibiting materials such as dust, paint, oil, curing compounds, sealers, gypsum, and adhesive buildup and residue.

Concrete: Concrete must be structurally sound, clean, and free from all bond inhibiting materials. Weak surfaces must be removed by mechanical means. All adhesive residue must be completely removed by mechanical means.

Wood: Surfaces must be free of any bond-inhibiting materials such as wax, paint, oil, adhesives, loose patches, etc. The subfloor must be $\frac{3}{4}$ " thick, A.P.A. classified type 1 exterior grade plywood or solid hardwood flooring. Spaces in joints should be filled with PROFLEX® Feather Flex. All fastener heads must be flush or countersunk and the plywood should be rigid without any flex or bounce. Refasten any loose boards. Install 3.4 pounds per square yard, galvanized, diamond lath that is overlapped at least 2 inches on all sides then mechanically attached. The lath shall be fastened every 6 inches on overlaps and have 8 inch centers starting from a floor joist.

Ceramic Tile / Quarry Tile / Cement Terrazzo: All waxes, sealers, and glazes must be removed. Remove all glazes and roughen the surface by either shot-blasting or other mechanical means.

Priming

All surfaces must be primed with PROFLEX® SLU Primer prior to installing PROFLEX® SLU. The primer must be dry to the touch before applying PROFLEX® SLU. Allow the primer to dry for a minimum of 2 hours and a maximum of 48 hours.

PROFLEX® SLU PRIMER: 1 gallon container

Coverage 200-300 sq.ft. per gallon. Actual coverage will vary with porosity of substrate.

Mixing

Manual Mixing: Mix 1 bag at a time. Place 5.5 - 6.0 quarts of water into a SLU mixing pail and add one bag of PROFLEX® SLU at a time while mixing with a 7 amp, 650-rpm drill and a Mixing Paddle. Mix thoroughly for approximately 1 to 2 minutes until a lump free consistency is achieved. Extended mixing may entrap air that can cause pinholes and affect surface smoothness.

Do not add more water. Adding more water than specified can result in aggregate settling, low strength, surface dusting and whitening.

Mixer/Pumps: PROFLEX® SLU can be mixed and applied using automated equipment developed specifically for the application of self-leveling underlayments. Because of the variety and complexity of such equipment, it is difficult to provide specific guidelines. Of key importance is maintaining the specified water in the mix. Overwatering can result in surface whitening, powdering, color variations and bonding issues. The equipment must be capable of accurately and consistently metering the appropriate amount of mix water. Mix/pumps should be equipped with a means of setting the water amount per 50# unit of powder to 5.5 - 6.0 quarts of PROFLEX® SLU.

Application

Pour or pump the mixed PROFLEX® SLU onto the prepared floor and spread to the desired thickness with a spreading tool. Smooth the surface with a smoothing tool within 5 minutes of placing. For large continuous pouring, maintain a wet edge and flow the freshly placed material into the previous pour smoothing the transition. Wear cleated shoes while placing the SLU to avoid leaving marks in the fresh material.

Thickness of Application:

PROFLEX® SLU may be placed from $\frac{1}{8}$ " to $\frac{1}{2}$ ". When installed over a wood substrate, a minimum of $\frac{3}{8}$ " of SLU must be placed over the lath. If a second layer is required, install immediately after the first layer has set to a walkable hardness. If the first layer has dried over 12 hours, re-prime before second application.

Clean Up

Clean tools and equipment with water. Do not let PROFLEX® SLU harden on tools. If it does, remove mechanically.

Curing

Prevent exposure to wind, drafts, and direct sun that could cause surface drying and wrinkling. Protect from freezing temperatures a minimum 48 hours after placement. Foot traffic allowed between 4 - 12 hours after installation..

Finish Flooring Installation

Most thin-set mortar applications or floor coverings that are not moisture sensitive may be placed in as little as 6 hours. Moisture sensitive floor coverings may be installed in as little as 24 hours. Drying time may vary and will depend on a number of factors including thickness of application, temperature and relative humidity. Test the substrate prior to floor installation to insure that it meets moisture and other requirements specified by the flooring manufacturer.

6. AVAILABILITY

PROFLEX® Products are available nationwide.

To locate PROFLEX® products in your area, please contact:

Phone: 877-577-6353

Website: www.proflex.us

7. WARRANTY

PROFLEX® Products, Inc. offers a limited warranty for this product when used in accordance with printed specifications. A copy of the limited warranty can be obtained by calling technical services at 877-577-6353 or visiting www.proflex.us

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

10. FILING SYSTEM

Division 9