PROFLEX®

LIBERTY LEVEL

MARCH 2025 **2025-03-24**

1. PRODUCT NAME

Liberty Level Self-Leveling Underlayment

2. MANUFACTURER

PROFLEX® Products, Inc.
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Haines City, FL 33122
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3. PRODUCT DESCRIPTION

Liberty Level is an advanced self-leveling underlayment designed for fast-track applications. This high-flow, calcium aluminate-based formula creates a smooth surface for finished floor coverings. Key features and benefits include:

Advantages

- High flow distance and speed
- No additional sanding or skim coating required once cured
- Suitable for installations ranging from 1⁄16" to 1 1/2" neat
- ≤60 minutes of working time
- Walkable in 2-3 hours
- Compatible with wood, vinyl, linoleum, ceramic, rubber, VCT
- Zero VOC

Suitable Substrates

- Concrete
- Ceramic, porcelain, or quarry tile
- Pavers
- Cement or epoxy terrazzo
- Cement backerboard
- Metal
- VCT or full glued-down, non-cushioned vinyl sheet goods
- Exterior grade plywood (*with reinforcement lath)*
- Oriented Strand Board (OSB) (*with reinforcement lath)*
- Gypsum substrates *(properly primed) with minimum tensile bond strength 72 psi*

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 hours 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 LIBERTY LEVEL to chemical attack.
- Do not expose LIBERTY LEVEL to freeze/thaw conditions.
- Substrate temperatures must be 50°F or above.
- For temperatures higher than 85°F consult PROFLEX® Technical Services

4. TECHNICAL DATA

Physical Properties

Working Time	**<60 minutes**
Walkable Time	**2-3 hours**
Thickness Range (Neat)	**1/16”-1 ½”**
Maximum Thickness (with Aggregate)	**Up to 5”**
Substrate Requirements	**Must be primed; multiple substrates supported**
Radiant Heat Compatibility	**Yes**
Primer Required	**PROFLEX Liberty Primer**
Compressive Strength (28 Days)	**4,500 psi**
Flexural Strength (28 Days)	>1,000 psi
Shrinkage	<0.07%
Self-Healing Time	30–40 minutes

Packaging:
50 lb. plastic bags (22.68 kg)

Coverage

Application Depth	Weight per Sq. Ft.	Coverage per 50 lbs.
1⁄16" (1.6 mm)	0.5-0.7 lbs.	100 sq. ft.
1⁄8" (3 mm)	1.1-1.3 lbs.	50 sq. ft.
1⁄4" (6 mm)	2.2-2.6 lbs.	25 sq. ft.
1⁄2" (12 mm)	4.6-5.3 lbs.	12.5 sq. ft.
1" (25 mm)	9.1-10.5 lbs.	6.25 sq. ft.
1 1/2" (38 mm)	13.7-15.8 lbs.	2.778 sq. ft.

5. INSTALLATION

Surface Preparation:

Prepare surfaces for Liberty Level installation by ensuring suitability and compatibility. Suitable substrates include concrete, ceramic

or quarry tile, pavers, cement or epoxy terrazzo, cement backerboard, metal, VCT or fully glued-down vinyl sheet goods, exterior-grade plywood, OSB, and gypsum substrates. Surfaces must be structurally sound, free from contaminants, and primed with Liberty Primer. Test substrate moisture content and remediate excessive moisture conditions if needed. Create a minimum of 1/8" to 1/4" (3-6mm) wide gap where Liberty Level abuts walls, columns, and fixtures by installing PROFLEX Perimeter Isolation Barrier (PIB).

MIXING

Manual Mixing: Mix 2-3 bag at a time. Place accurately measured 6 - 6.5 quarts of cool, potable water into a PROFLEX® LIBERTY LEVEL mixing pail and add one bag of PROFLEX® LIBERTY LEVEL at a time while mixing with a 7 amp, 650-rpm drill and an open loop designed mixing paddle. Mix completely for a minimum of 2 minutes until lump free, adding no additional water. To keep the job moving, it is recommended that two mixing drums be used simultaneously. This will allow one mixing container to be poured while the other is being mixed. MIX FULL BAGS ONLY. Do not add extra water. Adding more water than specified can result in aggregate settling, low strength, surface whitening, powdering, cracking, delamination and void product warranty. The formation of a white or tan film on the surface is an indication of overwatering. Stop installation immediately and replace with correctly measured water/mixture. If in doubt use the lower water mixing 6 quarts water ratio.

Mixer/Pumps: PROFLEX® LIBERTY LEVEL 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. It is of key importance is maintaining the specified water in the mix. Overwatering can result in surface whitening, powdering, cracking, delamination and void product warranty. 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 6 - 6.5 quarts of PROFLEX® LIBERTY LEVEL. MIX FULL BAGS ONLY.

Installation:

Over Adhesive:

For installations over adhesive, remove adhesive residues by mechanical means. Install Liberty Level over a primed surface.

Single Layer of Exterior Grade Plywood or OSB with Lath:

Securely fasten wood subflooring and install a minimum thickness of 3⁄4" single-layer plywood or OSB with lath. Staple galvanized diamond metal or plastic lath and install Liberty Level based on joist spacing specifications.

Double Layer of Exterior Grade Plywood without Lath:

Use a minimum 5⁄8" plywood subfloor securely fastened with screw-type or ring shank nails and adhesive. Install Liberty Level over a primed surface.

Radiant Heating Systems:

Prime the substrate before installing heating system components. Turn off the heating system 2 days before and keep it off for 7 days after Liberty Level installation.

MARCH 2025 **2025-03-24**

Metal Substrates:
Suitable metal substrates include non-galvanized steel, stainless steel, copper, aluminum, and lead. Metal surfaces must be free of rust or corrosion.

Application:

Apply Liberty Level when air temperature is between 50°F and 90°F. Close doors and windows to minimize air flow. Pour or pump Liberty Level onto the floor, dispersing with a gauge rake. Use cleated shoes to avoid marks. Provide a continuous wet flow throughout the application. Ensure a minimum depth of pour is 1/16" over the highest point of the floor. Minimum depth of 1/8" is required for heavy rolling loads. Maximum Liberty Level thickness is 1 1/2" neat. Pours of up to 5" thickness may be achieved by adding aggregate. Mix Liberty Level as instructed, adding equal parts of aggregate during placement. Allow the first lift to cure until walkable. Apply two coats of primer before the second lift. Prime the surface with Liberty Primer.

Curing:
Protect from excessive temperature, air movement, and direct sunlight during cure. Turn off HVAC systems for up to 24 hours after installation. Note: Liberty Level is not a wear surface and should be protected until the final floor covering is applied. **Allow a minimum of 15 hours before installing moisture-sensitive flooring.**
Safety
Avoid contact with skin where possible. Wash exposed skin areas promptly with water. If mortar gets in eyes, rinse immediately and repeat. Get prompt medical attention. **Keep out of reach of children.**

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