LIBERTY LITE

2025-01-09

1. PRODUCT NAME

LIBERTY LITE

2. MANUFACTURER

PROFLEX® Products, Inc.
1603 Grove Ave.
Haines City, FL 33122
Telephone: 863-937-9623
Toll Free: 877-577-6353
Fax: 863-937-9624
Internet: www.proflex.us

3. PRODUCT DESCRIPTION

PROFLEX® LIBERTY LITE is a premium light-weight large format (LHT) tile bond mortar. It is an easy trowel mortar latex modified, large heavy tile mortar composed of specialized light weight aggregates, sand, cement, and resins used to adhere a variety of tile surfaces, natural stone, marble, and granite, to approved substrates. Specially formulated to hold large format tiles and stone surfaces in place on vertical surfaces, and reduces unevenness caused by setting tile on horizontal surfaces. LIBERTY LITE is applied in thickness from 3/16 to 3/4 inches to adhere ceramic, porcelain, marble, granite, and tile, to plaster, drywall, concrete, and masonry surfaces. Designed to set tiles vertically of up to 5 lbs. per sq. ft. (Larger sized units must be field tested to determine suitability).

Advantages

- Exceptional creaminess for ease of troweling
- Nanobond Lightweight Technology
- A 35 lbs. (15.9 kg) bag covers the same amount as a 50 lbs. (22.6 kg) bag of traditional mortar
- Supports Non-sag and non-slump formula for large and heavy tile/stone
- Suitable for both interior and exterior applications
- Exceeds ANSI A118.15 HET, A118.4 and A118.11
- Vertical tile installations up to 5 lbs. per sq.ft.
- Up to 15-year system warranty
- Zero VOC
- Recycled content MR 4.2 credit > 10% contributes to LEED® certification

Uses

For installation of:

- Ceramic tile
- Pavers
- Quarry tile
- Porcelain tile
- Clay bodied tile
- High bottom lugged tile
- Marble
- Granite
- Mosaic
- Large format tiles

Suitable Substrates:

2025-01-09

- Tile backer board
- Plumb and true masonry
- Properly cured and finished concrete
- Gypsum plaster
- Gypsum block or gypsum board (dry areas – walls only)
- Cured Portland cement mortar
- Exterior grade plywood (dry interior)
- Scarified plastic laminates
- Masonry surfaces
- PROFLEX® Membranes

Coverage

35 lbs. (15.9 kg) bag covers the same amount as a 50 lbs. (22.6 kg) bag of traditional mortar.
Coverage will vary with condition of substrate. Required trowel size will vary with the tile size, type and substrate uniformity. Select the trowel size that will ensure 100% coverage. Figures below are presented only as guidelines.

- ½" x ½" x ½" Square Notch, yields 40 - 50 sq. ft.
- ¼" x ⅜" x ¼" Square Notch, 70 - 80 sq. ft.

Packaging: 35 lb. bag, 56 bags per pallet.
35 lbs. (15.9 kg) bag covers the same amount as a 50 lbs. (22.6 kg) bag of traditional mortar

Storage: Store dry, protected from weather, water and moisture.
Shelf Life: One year from manufacturing in sealed original container, when properly stored at room temperature, off the ground in a controlled, dry, heated area.

4. TECHNICAL DATA

Typical Performance Properties

Shear Strength	7 days (psi)	28 days (psi)
Quarry Tile	250-300	450-500
Mosaic Tile	250-300	300-350
Glazed Wall Tile	400-450	400-450
Quarry Tile & Plywood	175-200	200-250
Compressive Strength	1500-2000	3,000-4000
Adjustability	15-20 minutes	
Open Time	50-70 minutes	
Final Set	6-8 hours	
LEED v3 NC VOC	EQ Credit 4.1	LIBERTY LITE Results
VOC	<65 g/l	0 g/l
LEED RECYCLE CONTENT	MR 4.1 Credit	> 10 %
CERTIFIED CLEAN AIR GOLD	CDPH Standard Method V1.2, TVOC	0.5mg/m^3 or less

Standards: ANSI A118.15 HET, A118.4, A118.11 and A108.5

5. INSTALLATION

Surface Preparation

PROFLEX®

LIBERTY LITE

2025-01-09

Surfaces to receive LIBERTY LITE must be clean and dry. Coatings, sealers, curing agents, and loose material must be removed prior to installation. All substrates must be secure and stable.

For applications using exterior grade plywood, a gap of 1/8 inch must be maintained between sheets. Wood flooring must be a minimum of 1.25" thick APA plywood. Deflection of the plywood substrate due to live or dead loads must not exceed 1/360 of the span. Increased thickness and strengthening of the subfloor may be required. Applications using exterior grade plywood are for interior uses not subjected to water. Plywood must be Group One, Exterior Grade, CC or better and must be installed according to TCNA F150

Mixing

Add LIBERTY LITE (35 lbs.) to approximately 6.5- 7 quarts (6.2- 6.6 liters) of clean potable water and mix to a thick trowelable consistency. Mix at low speed to avoid entrapping excess air into the material. Let the material slake for 10 minutes and remix prior to use. Do not add additional water to re-temper material.

Application

Scratch in a small amount of material onto substrate to insure proper bond, then apply additional material with a suitable trowel. It is important when adhering marble and granite that 100% coverage is obtained. When installing irregularly sized marble and granite units, back- buttering each piece and setting, using a large notched trowel is recommended. This will maximize bonding area and improve the evenness of the finished surface. Set the tile in the material with enough force to insure 100% contact and twist tile slightly. Ten minutes after the tile is set, do not adjust, move, or put pressure on the tile. Only spread enough material that can be covered with tile within 15 minutes. Remove unhardened mortar with water. Once mixed, mortar can be used for up to 4 hours. For applications over cement backerboard, adhere backerboard according to backerboard manufacturer's recommendation using LIBERTY LITE applied to the plywood substrate. For applications over existing ceramic tile, plastic laminate, vinyl flooring (non-asbestos), or VCT residue, roughen surface with coarse sandpaper or other abrasive. Clean to remove loose material and/or completely remove all foreign bond contaminates.

Limitations: Do not install PROFLEX® LIBERTY LITE below 40 °F (4 °C) or above 95 °F (35 °C). Do not allow mortar to freeze for the first 72 hours. Do not soak tiles previous to installation. LIBERTY LITE must not be used to apply over asphalt sheeting, vinyl covered wallboard, Masonite®, cement asbestos board, metal, glass, plastic, gypsum mortar beds or other unstable substrates. Improperly cured or wet plywood, particle board or strip wood are not suitable substrates. Installations that will be continually wet like swimming pools, fountains and gang showers, the completed installation should be cured a minimum of 14 days and allowed to dry before exposure to water. For white or light-colored marbles use LIBERTY LITE White mortar. Some dimensional stone tile like resin backed, black, green and red marbles may warp when installed with water-based setting materials. These water sensitive stone tiles should be installed with epoxy setting mortar (A118.3). For use of LIBERTY LITE over additional substrates or situations not mentioned in these instructions, contact PROFLEX® Technical Services

Cleaning

Immediately after use, clean with water. Protect other surfaces from contact with material.

Curing

Under normal conditions grouting may be performed after the dry set mortar has cured 24 – 48 hours.

CAUTION: Eye and skin Irritant. Read all precautions and instructions prior to using. Avoid inhalation of product. Keep out of reach of children and pets.

PROFLEX®

LIBERTY LITE

2025-01-09

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