



**PRODUCT DATA SHEET (PDS)**

**Micro Milling Premium LFT**

**Manufacturer:**

MICRO MILLING LIMITED  
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**Product Definition**

Micro Milling Premium LFT medium-bed mortar is a high quality polymer modified blend of Portland cement, graded sand and special additives which are designed to provide improved slump and sag resistance to support the weight of large format tiles, pavers and stone during the early stages of setting, thereby reducing the possibility of lippage and sag in floor and wall projects. Premium LFT is manufactured to meet ANSI A118.4 standards, possessing improved performance features which include enhanced bond strength and resistance to shock and impact.

**Features and Benefits**

Micro Milling Premium LFT is designed to be used as either a medium bed mortar or thin set providing tilers superior performance when installing larger, heavier tiles and stone. The product features include:

- Exceeds ANSI A118.4 test standard for Latex-Portland cement mortar
- Ideal for 15”x15” (38x38cm) and larger tiles, pavers and natural stone
- Can be used as a medium bed mortar up to ¾” (19mm)
- Polymer Modified
- Special non-slump formula helps prevent lippage and sag.
- Formulated for warm weather applications
- Enhanced flexibility and bond strength
- Ready to use - Just add water
- For interior and exterior use
- Suitable for floor and wall applications

- Easy application and workability
- Extremely durable
- Suited to both residential and/or commercial installation projects
- Resistant to Shock & Impact

**Use**

For the installation of:

- Ceramic tile
- Porcelain tile
- Brick Pavers
- Quarry Tiles
- Cement Tiles
- Marble
- Stone
- Tile over tile (prepared)\*
- Tile over Terrazzo (prepared)\*\*

\*For tile over tile applications - loose or fractured tiles should be removed and voids filled with an appropriate floor levelling agent or filler. Tiles should be thoroughly cleaned to remove all grease, soap scum, waxes, sealants etc. Sanding the surface of the existing tiled floor will greatly improve the mechanical bond of our Premium LFT.

\*\*For tile over terrazzo applications - terrazzo surface should be in a dry, covered area. Thoroughly clean to remove all grease, soap scum, waxes, sealers, etc. Etching the surface of the terrazzo will greatly improve the mechanical bond of our Premium LFT.

**Specifications**

**Micro Milling Premium LFT (ANSI A118.4)**

Test/ Designation	Test Values (Avg)	ANSI specification
<b>Liquid/Powder Ratio</b> (Parts by Weight)	27:100	-
<b>Glazed Wall Tile Shear Bond</b>		
28-day shear strength	400-600	> 300 psi
<b>Impervious Mosaic Tile Shear Bond</b>		
28-day shear strength	250-400	> 200 psi
<b>Quarry Tile Shear Bond</b>		
28-day shear strength	280-400	> 150 psi
<b>Compressive Strength</b>		
28-day strength	> 3000	≥ 2500

**Preparation**

Surfaces to be tiled should be dry, free from dirt, dust or curing compounds, and other loose or weak material that could affect the bond. Where possible, substrates should be hosed or pressure-washed. Substrates should be even to optimize the coverage of Micro Milling Premium LFT.

### **Mixing**

Premium LFT should be added to clean, cool potable water at the rate of approx. 6.1- 6.5 US Qts (5.8- 6.2 litres) per 50 lb. (22.68 kg) bag.

Mix thoroughly until smooth and let mortar slake (rest) for 5 minutes, then remix.

If a mechanical mixer is used, it must be done at a low RPM (300 or less) to avoid entrapping air into the mortar.

Do not add water or additional powder after slaking period. The proper mortar consistency is such that when applied with a notched trowel to the substrate, the ridges formed in the mortar will not flow or slump.

During use, remix mortar occasionally. Do not use mortar after initial set in bucket

Please note: Do not use hot or warm water; it will accelerate the mortar's drying time and could negatively affect the final shear bond strength.

### **Application**

Apply mortar liberally with flat side of trowel, using sufficient pressure to work the mortar into good contact with the substrate. Use an appropriate notched trowel to ensure 100% coverage of mortar under tiles. Spread only as much mortar as can be covered in 5 minutes or before surface dries. Place tiles while surface is still wet and tacky and push tiles back and forth in a direction perpendicular to trowel lines to collapse the mortar ridges. Firmly tap tiles in with a rubber mallet to ensure maximum coverage. Industry standards require a minimum mortar bed thickness of 3/32" (approx. 2mm) after tapping in.

Good industry practice also requires removing any excess thin set mortar from the joint spaces so that a minimum of 2/3 of the tile's thickness is available for proper grouting.

A 1/4" (6mm) gap shall be left around all vertical surfaces to allow for structural movement. Do not fill gap with grout. Use a flexible sealant or silicone. Follow ANSI A108.5 specifications for installation.

### **Curing**

- Minimum cure is reached in 24 hours.
- Restrict walking until tiles are grouted.
- Normal grouting can be done 48 hours after installation.
- Heavy foot traffic should be restricted for at least 7 days.
- Setting and drying times may vary according to atmospheric conditions.

### **Expansion & Control Joints**

Provide for expansion and control joints as specified per TCNA Detail EJ171.

### **Coverage**

The coverage of our Premium LFT mortar will vary according to the thickness of the tile bed required but using a 1/2" x 1/2" (12x12mm) notched trowel on an evenly prepared surface a 50 lb. (22.68 kg.) bag will yield material to cover an area of 35- 45 ft<sup>2</sup> (3.26- 4.19 m<sup>2</sup>)

Substrates that are not even or true will result in reduced coverage.

### **Clean Up**

Wash hands and all tools used with mild soapy water before mortar completely dries.

### **Packaging**

Micro Milling Premium LFT is packaged in 50 lb. (22.68kg.) multiwall paper sacks with a moisture barrier within to ensure a long shelf-life.

### **Storage**

Micro Milling Premium LFT should be stored on pallets in original, closed packages in a dry and cool place, and should not be exposed to water, direct sunlight and damp conditions prior to use.

Do not store opened bags.

### **Shelf Life**

Store above ground, in dry and well-ventilated areas for the best life expectancy of up to six (6) months from date of manufacture in unopened containers.

### **Safety Data**

Corrosive. During mixing or application avoid contact with eyes and skin. In case of contact with eyes rinse repeatedly with water and call a physician. Wash thoroughly after handling. May be harmful if swallowed.

Contains Free Silica. Use personal protective equipment (respirator, gloves, goggles and boots) when handling or using this product.

Before commencing work, read the information provided on the packaging and the product SDS sheet at our website [www.micromillingtt.com](http://www.micromillingtt.com) for the safe and proper use of this product

**Manufacturer's Caution**

This Product Data Sheet has been prepared in good faith based on information available at the time of publication. It is intended to provide users with information and guidelines for the proper use and application of our Premium LFT under normal environmental and working conditions.

Because each project is different Micro Milling Limited cannot be responsible for the consequences of variations in such conditions or for unforeseen factors.

**Disclaimer**

Micro Milling is not responsible for workmanship not in accordance with its instructions and NTCA/ISO guidelines.