



PRODUCT DATA SHEET (PDS)

Micro Milling Thin Set

Manufacturer:

MICRO MILLING LIMITED
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**Product Identification:
 Micro Milling Thin Set**

Product Definition

Micro Milling Thin Set mortar is a blend of Portland cement, graded sand and special additives, designed for setting ceramic, quarry and concrete tiles over concrete substrates.

Features and Benefits

- Exceeds ANSI A118.1 test standard for dry-set Portland cement mortar
- Specially formulated for warm weather applications
- Strong bond with optimum working time to compliment the skills of the tile installer
- Ready to use - Just add water
- For interior and exterior use
- For wall and floor applications
- Ease of application
- Excellent workability and consistency
- Suited to both residential and/or commercial installation projects
- Manufactured under stringent quality control

Uses

For the installation of:

- Ceramic Tiles
- Brick Pavers
- Quarry Tiles
- Cement Tiles
- Clay Tiles

Specifications

**Micro Milling Thin Set
 (ANSI A118.1)**

Test /Designation	Test Values (Avg)	ANSI Specification
Liquid/ Powder Ratio (Parts by Weight)	24: 100	-
Glazed Wall Tile Shear Strength		
28-day shear strength	275-375 psi	> 250 psi
Porcelain Mosaic Tile Shear Strength		
28-day shear strength	170-220 psi	> 150 psi
Quarry Tile Shear Strength		
28-day shear strength	150-250 psi	> 100 psi

Preparation

The 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 Thin Set.

Mixing

Micro Milling Thin Set should be added to clean, cool potable water at the rate of approx. 5.5- 6.0 US Qts. (5.3- 5.7 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 water; it will accelerate the mortar's drying time and could negatively affect the final shear bond strength.

Application

Apply thin set 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 comb the mortar bed 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 approximately 3/32" to 1/8" (approx. 2-3mm) mortar bed thickness after tapping in.

Good industry practice also requires removing any excess thin set mortar from the joint spaces so that a minimum of 3/8 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 thereafter.
- 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 Thin set will vary according to the thickness of the tile bed required but using a 1/4"x1/4" (6x6 mm) notched trowel on an evenly prepared surface a 50 lb./22.68 kg. bag will yield sufficient mortar to cover an area of 30-50 sq. ft. (2.79- 4.65 sq. m)

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 thin set dries completely.

Packaging

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

Storage

Micro Milling Thin set 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 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. Do not breathe dust. Use personal protective equipment (respirator, gloves, goggles and boots) when handling or using this product.

Use appropriate bending and lifting techniques when handling unopened bags.

Note: Before commencing work, read the information provided on the packaging and the product SDS available at the Premium 3600 product page on our website 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 Thin set mortar 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 Limited is not responsible for workmanship not in accordance with its instructions and NTCA/ISO guidelines.