

1. PRODUCT NAME

LATICRETE® 253 Multipurpose Thin-Set Mortar

2. MANUFACTURER

LATICRETE Pty Ltd.
 464 Geelong Road,
 Footscray West. VIC. 3012.
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 Toll Free: 1800331012
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 Internet: www.laticrete.com

3. PRODUCT DESCRIPTION

LATICRETE 253 Multipurpose Thin-Set Mortar is an economical polymer modified, bagged, cementitious thin-set powder to be mixed only with water using the thin-set method of installation.

Uses

Designed for interior and exterior floor and wall installations of all types of ceramic tiles and natural stones over concrete, plywood and a variety of substrates.

Advantages

- Interior and Exterior
- Exceeds ANSI A118.4 Shear Bond Strength Requirements
- Bonds to most surfaces

Suitable Substrates

- Concrete
- Concrete Masonry
- Cement Mortar Beds
- Cement Plaster
- Ceramic Tile and Stone
- Brick Masonry
- Cement Backer Board**
- Cement Terrazzo
- Exterior Grade Plywood*
- Gypsum Wallboard*
- Properly Prepared Vinyl Tile and Other Resilients

**Interior use only*

***Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.*

Packaging

20kg bags
 56 bags per pallet.

Color

White and off white.

Coverage

Approximately 5 – 7 M2 / 20kg bag
 With 6mm x 9mm notched trowel.

Approximately 7 - 8 M2 / 20kg bag
 with 6mm x 6mm notched trowel.

Coverage will vary depending on trowel notch size, type and size of tile and substrate.

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for one (1) year if stored off the ground in a dry area. High humidity will reduce the shelf life of bagged product.

Limitations

- Not for use directly over particle board, luan, Masonite® or hardwood floors.
- Not for use over VAT, VCT cutback, and plastic laminates.
- Use LATAPOXY® 300 Epoxy Adhesive for installing green marble or water sensitive natural stone and agglomerates.
- Use white mortar for white or light colored marble/stone.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not designed as replacements for waterproof membranes. When a waterproofing barrier is required, use a LATICRETE 9235 Waterproofing Membrane.
- NOTE: Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations where L=span length.

Cautions

- Some marbles and other natural stone have low flexural strength and may not be suitable for installation over wood floors.
- During cold weather, protect finished work from traffic until fully cured.
- Keep out of reach of children.
- Consult MSDS for safety issues.

4. TECHNICAL DATA

Applicable Standard

ANSI A118.4-1999 and A118.11-1999

Performance Properties

Test/Test Method	Results
Shear Bond, Porcelain Tile, 28 day cure ANSI A118.4-1999; F-5.2.4	2.1 MPa
Shear Bond, Porcelain Tile Water Immersion ANSI A118.4-1999; F-5.2.3	1.4 MPa
Shear Bond, Quarry Tile/Plywood ANSI A118.11-1999 P-4.1.1.2	1.2 MPa

Working Properties (70°F(21°C))

Open Time	50 minutes
Pot Life	4 hours
Time to Heavy Traffic	24 hours
Wet Density	1653 kg/m ³

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

5. INSTALLATION

All surfaces should be between 4°C and 32°C and structurally sound, clean and free of all dirt, oil, grease, loose peeling paint, concrete sealers or curing compounds. Rough or uneven concrete surfaces should be made smooth with LATICRETE® Latex Portland Cement underlayment to provide a wood float (or better) finish. Dry, dusty concrete slabs or masonry should be dampened and excess water swept off. Installation may be made on a damp surface. New concrete slabs shall be damp cured and 28 days old before application. All slabs must be plumb and true to within 6mm in 3m. Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Follow Australian Standards AS3958.1-1991, AS3958.2-1992 and designers requirements for Expansion Joints. Do not cover expansion joints with mortar.

1. Installer must verify that deflection under all live, dead and impact loads of interior plywood floors does not exceed industry standards of L/360 for ceramic tile and brick or L/480 for stone installations where L=span length;

2. **DO NOT** bond to particle board, luan, Masonite® or hardwood surfaces.

Mixing

Place clean, potable water into a clean pail. Add LATICRETE 253 Multipurpose Thin-Set Mortar. Use approximately 4 – 4.5 litres of water for 20 kg of powder. Mix by hand or with a slow speed mixer to a smooth, trowelable consistency. Allow mortar to slake for 5-10 minutes. Remix with out adding any more water or powder. During use, stir occasionally to keep mix fluffy. Do not temper with water.

Application

Apply mortar to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb on additional mortar with the notched side. Note: Use the proper sized notched trowel to insure full bedding of the tile. Spread as much mortar as can be covered with tile in 15-20 minutes or whilst the adhesive is wet and tacky. Back butter large tiles > 8" x 8" (200mm x 200mm) to provide full bedding and firm support. Place tiles into wet, sticky mortar and beat in using a beating block and rubber mallet to imbed tile and adjust level. Check mortar for complete coverage by periodically removing a tile and inspecting bedding mortar transfer onto back of tile. If mortar is skinned over (not sticky), remove and replace with fresh mortar.

Grouting

Grout installation after a minimum of 24 hours curing time at 21°C. Grout with LATICRETE 500 or 600 series Sanded or Unsanded Grout mixed with LATICRETE 1776 Grout Admix Plus. For maximum stain resistance use LATAPOXY® SpectraLock Pro Grout.

Cleaning

Clean tools and tile work with water while mortar is fresh.

6. AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY® materials are available worldwide. For distributor information, call:

Toll Free: 1800 331012

Telephone: 03 99336111

For on-line distributor information, visit LATICRETE at www.laticrete.com

Cost

Contact a LATICRETE/LATAPOXY Distributor in your area.

7. WARRANTY

LATICRETE Pty Ltd. warrants that LATICRETE 253 Multipurpose Thin-Set Mortar is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of seven (7) year from the date of purchase subject to the terms and condition stated in Data Sheet 230.7Paus, LATICRETE Product Warranty.

8. MAINTENANCE

LATICRETE and LATAPOXY grouts require routine cleaning with a neutral pH soap and water. All other LATICRETE and LATAPOXY materials require no maintenance 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 LATICRETE Technical Service or by email at techservice@laticrete.com.au

Technical and safety literature

To receive product data and material safety data sheets please contact us:

Telephone; 1800 331012 or 03 99336111.

Fax; 03 99336199

Email; techservice@laticrete.com.au