



Globally Proven
Construction Solutions

290 Premium Floor & Wall

290 premium floor & Wall thin set mortar is a high performance bagged cementitious powder to be mixed with either water or latex admixture to install ceramic tile and natural stone using the thin-set method of installation.



ADVANTAGES

- High Tack - Will hang tile without slippage
- Dual purpose, for walls and floors
- Water Cleanable
- Easy to Use - Plastic, workable and long open time
- High Bond Strength - 200% stronger than mastic type adhesives
- Safe-non-flammable and non-toxic during storage, application and after hardening

MANUFACTURER

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USES

Designed for interior or exterior installation of ceramic tile and natural stone for walls and floors.

PACKAGING / COLOR

Packaging,
20 kg bags, 72 bags per pallet
Color: grey and white

Suitable Substrates

- Concrete
- Concrete Masonry
- Cement Mortar Beds
- Cement Plaster
- Ceramic Tile and Stones**
- Exterior Grade Plywood (Interior Only)*
- Gypsum Wall Board (Interior Only)
- Brick Masonry
- Cement Terrazzo**
- Cement Backer Board***

*When mixed with LATICRETE 333 Super Flexible Mortar Additive.

**When mixed with LATICRETE 3701 Mortar Admixture.

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

Approximate Coverage

APPROXIMATE COVERAGE Per 20 kg bag

NOTCH TROWEL COVERAGE

6 mm x 6 mm 5.5– 6.5 M²

6 mm x 9 mm 5.0 – 6.0 M²

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.(non-rapid versions only).

^{^^} High humidity will reduce the shelf life of bagged product.

Limitations

- Do not apply directly to plywood, chipboard, particleboard, decorative laminates or resilient flooring.
- For installations over plywood, decorative laminates or resilient flooring use with LATICRETE_ 333 Super Flexible Mortar Additive.
- Industry standards recommend the use of latex Additive for exterior installations. Use LATICRETE 3701 Mortar Admix for best results.
- Do not install tile/stone when surface temperatures are below freezing 0_C. Always use LATICRETE latex additives when temperatures approach freezing.
- Use LATAPOXY® 300 Epoxy Adhesive for installing green marble or water sensitive natural stone and agglomerates.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers brick and stone are not designed as replacements for waterproof membranes. When a waterproof membrane is required, use a LATICRETE Waterproof 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

Consult MSDS for more safety information.

- Contains Portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Do not take internally. Avoid breathing dust. Wear a respirator in dusty areas.
- For tile/stone applications in pools, fountains, shower or bathtubs, mix with LATICRETE 3701 Mortar Admixture. Wait 14 days before filling with water.
- Protect finished work from traffic or damage by other trades for an extended period of time during cold weather conditions. At room temperature conditions 20_C, protect overnight.
- Keep out of reach of children.

TECHNICAL DATA

VOC/LEED Product Information

Applicable Standards

ANSI A118.1 – 1999 | ANSI A118.4 – 1999

Performance Properties

LATICRETE 290 mixed with LATICRETE 3701 Mortar Admix

| Test | Test Method |
|--------------------------------------------|----------------------------|
| Shear Bond Porcelain Tile, 28 day cure | ANSI A118.4-1999; F-5.2.4 |
| Shear Bond Porcelain Tile, Water immersion | ANSI A118.4-1999; F- 5.2.3 |
| Water Absorption | ANSI A118.6 - 1999 H- 4.4 |
| Compressive Strength | ANSI A118.4-1999; F-6.1 |
| TCA Service Rating | ASTM C-627 |

LATICRETE 290 Premium Floor & Wall Thin-Set Mortar mixed with Water

| Test | Test Method | Results |
|-------------------------------|----------------------------------|----------|
| Shear Bond Porcelain Tile, 28 | ANSI A118.1-1999; | 1.6 |
| Shear Bond Porcelain Tile, | ANSI A118.1-1999; C-5.2.3 | 1 MPa |
| Compressive Strength | ANSI A118.4-1999; F.1 (modified) | 20.7 MPa |

Working Properties 21°C

LATICRETE 290 Premium Floor N' Wall Thin-Set Mortar Mixed with 3701 Mortar Admix

| | |
|-----------------------|------------------------|
| Open Time | 60 minutes |
| Pot Life | 5 hours |
| Time to Heavy Traffic | 24 hours |
| Wet Density | 1720 kg/m ³ |

LATICRETE 290 Mixed with Water

| | |
|-----------------------|------------------------|
| Open Time | 60 minutes |
| Pot Life | 3 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.

INSTALLATION**Surface Preparation**

All surfaces should be between 4°C and 32°C and structurally sound, clean and free of all dirt, oil, grease, loose peeling paint, laitance, 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. 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. For green and moisture sensitive marbles, use LATAPOXY® 300 Epoxy Adhesive, refer to Data Sheet 300.0.

Mixing

Stir LATICRETE admix thoroughly before use. Place clean, potable water or a LATICRETE latex admix into a clean pail. Add LATICRETE 290 powder. Use approximately 6.6 Litres of water for 20 kg of powder.

Note: For improved bond strength, flexibility and for exterior installations use LATICRETE 3701 Mortar Admix. **FOR INTERIOR INSTALLATIONS TO PLYWOOD USE LATICRETE 333 Super Flexible Mortar Additive. For rapid "Open to Traffic" installations use LATICRETE 101 Rapid Set Latex Mortar Admix.** Mix by hand or with a slow speed mixer to a smooth, trowelable consistency. Allow mortar to slake for 5-10 minutes. Adjust consistency if necessary. Remix and apply with the proper sized notched trowel.

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. Back butter large tiles > 200 x 200 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 Sanded or Unsanded Grout mixed with LATICRETE 1776 Grout Admix Plus. For maximum stain resistance use LATAPOXY® Spectralock® Pro Grout.

Cold Weather Note

The setting of Portland cement mortars and grouts are retarded by low temperatures. Protect finished work for an extended period when installing in cold weather. For faster setting mortar use LATICRETE Thin-Sets with LATICRETE 101 Rapid Set Latex Admixture. Do not set tile when surface temperature is below freezing or when substrate is frozen. Hot Weather Note: The evaporation of moisture in Portland cement mortars is accelerated by hot, dry conditions. Apply to dampened surfaces and protect freshly spread mortar and finished work when installing in temperatures over 35°C.

Cleaning

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

AVAILABILITY AND COST**Availability**

LATICRETE and LATAPOXY® materials are available worldwide.

For Distributor information, call : + 971 7 244 6396

Cost

Contact a LATICRETE Distributor in your area.

WARRANTY

LATICRETE warrants that LATICRETE 290 Premium Floor & Wall Thin Set Mortar is for a period of seven (7) years from date of purchase subject to the terms and conditions stated in Data Sheet 230.7 : LATICRETE Product Warranty .

TECHNICAL SERVICES

Information is available by calling the LATICRETE Technical Service

Telephone: + 971 7 244 6396

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at

www.laticrete.me / www.laticrete.com
