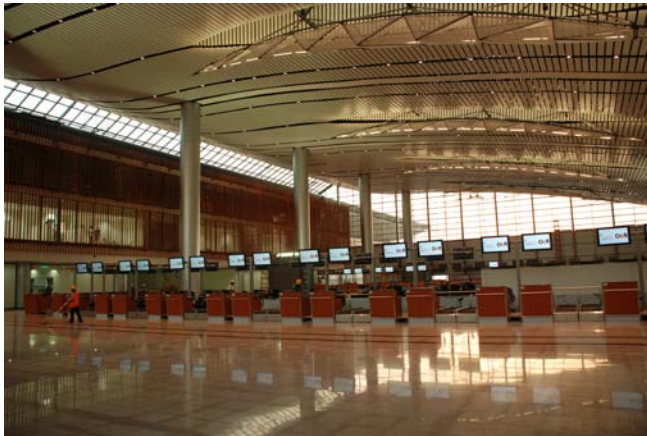




LATICRETE® 290

Premium Floor and Wall Thin-set Adhesive



PRODUCT DESCRIPTION

LATICRETE 290 Premium Floor and Wall Thin Set Adhesive is a high performance bagged cementitious powder to be mixed with either water or latex admix to install ceramic tile and natural stone using the thin-set method of installation.

Application

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

For exterior installation, mix with Laticrete 333 Super Flexible Latex admix

Advantages

- Dual use: for both floors and walls
- High bond strength
- High Tack - Will hang tile without slippage
- Easy to Use
- Increased flexibility
- Improved impact resistance

Suitable Substrates

- Concrete
- Concrete Masonry
- Cement Mortar
- Gypsum Board
- Plywood

- Ceramic Tile and Stones**
- Brick Mason
- Exterior Grade Plywood (Interior On
- Cement Terrazzo**
- Gypsum Wall Board (Interior Only)
- Cement Backer board***

*When mixed with LATICRETE 333 Super Flexible Mortar Additive.

**When mixed with LATICRETE 73 Latex Admix.

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

Packaging – 20 kg bag

Colour: Grey and White

Coverage

Approx 55-60 ft² per 20kg bag with 1/4" x 1/4" (6mm x 6mm) sq. notch trowel

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

Do not apply directly to plywood, chipboard, particleboard, decorative laminates or resilient flooring.

• For installations over plywood flooring use with LATICRETE 333 Super Flexible latex admix.

• Do not install tile/stone when surface temperatures are below freezing (32 °F/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

• 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.

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- Do not take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- Protect finished work from traffic or damage by other trades for an extended period of time during cold weather conditions. At room temperature conditions 70 °F (20°C), protect overnight.
- Keep out of reach of children.

TECHNICAL DATA

Applicable Standard

- ANSI A118.1 – 1999
- ANSI A118.4-1999

Performance Properties

LATICRETE 290 Premium Floor and Wall Thin-Set Adhesive mixed with Water

Test	Test Method	Results
Shear Bond Porcelain Tile, 28 day cure	ANSI A118.1 – 1999; C-5.2.4	256 psi (1.7 Mpa)
Shear Bond Porcelain Tile, Water immersion	ANSI A118.1-1999; C-5.2.3	165 psi (1.1 Mpa)
Compressive Strength	ANSI A118.4-1999; F-6.1 (modified)	2550 psi (17.5 Mpa)

LATICRETE 290 Premium Floor and Wall Thin-Set Adhesive mixed with L 333

Test	Test Method	Results
Shear Bond Porcelain Tile, 28 day cure	ANSI A118.4-1999; F-5.2.4	280 psi (1.9 MPa)
Shear Bond Porcelain Tile, Water immersion	ANSI A118.4-1999; C-5.2.3	180 psi (1.2 MPa)
Compressive Strength	ANSI A118.4-1999; F-.1 (modified)	4100 psi (28.2 MPa)

Working Properties (70° F(21° C))

LATICRETE 290 Premium Floor and Wall Thin-Set Adhesive Mixed with water

Open Time	20 minutes
Pot Life	3 – 4 hours
Time to Heavy Traffic	24 hours

Wet Density	1890 kg/m ³
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LATICRETE 290 Premium Floor and Wall Thin-Set Adhesive mixed with L 333

Open Time	30 minutes
Pot Life	5 hours
Time to Heavy Traffic	24 hours
Wet Density	1750 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 40 °F (4°C) and 90 °F (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. *No minimum cure time for concrete slabs when thin-set adhesive is mixed with latex additive. All slabs must be plumb and true to within ¼”(6mm) in 10 ft(3m). Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Follow ANSI Specification AN-3.8 “Requirements for Expansion Joints” or TCA Detail EJ171 “Expansion Joints”. Do not cover expansion joints with mortar. Cement Backer Board: follow TCA installation detail W244.

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. Minimum construction for interior plywood floors:

SUBFLOOR: 5/8” (15mm) thick exterior grade plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joints spaced 16” (400 mm) o.c. maximum; fasten plywood 6” (150mm) o.c. along sheet ends and 8” (200mm) o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8” (3mm) between sheet ends and ¼” (6mm) between sheets edges; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive;

UNDERLAYMENT: 5/8” (15mm) thick exterior grade plywood fastened 6” (150mm) o.c. along sheet ends and 8” (200mm) o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8” (3mm) to ¼” (6mm) between sheets and ¼” (6mm) between sheet edges and any abutting surfaces; offset underlayment joints from joints in subfloor and stagger joints between sheet ends; glue underlayment to subfloor with construction adhesive. Refer to

Technical Data Sheet 152 "Requirements for Direct Bonding of Ceramic or Stone Tiles Over Wood Floors" for complete details.

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 6L of water for 20 kg of powder.

Mix by hand or with a slow speed mixer to a smooth, trowelable consistency. Allow adhesive to slake for 5-10 minutes. Adjust consistency if necessary. Remix and apply with the proper sized notched trowel.

Note: For improved bond strength, flexibility and for exterior installations use LATICRETE 73 Latex Admix.

Application

Apply adhesive to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb on additional adhesive with the notched side. Use the proper sized notched trowel to insure full bedding of the tile. Spread as much adhesive as can be covered with tile in 10 minutes. Back butter large tiles (> 12"x12") to provide full bedding and firm support.

Place tiles into wet, sticky adhesive and beat in using a beating block and rubber mallet to imbed tile and adjust level. Check adhesive for complete coverage by periodically removing a tile and inspecting bedding adhesive transfer onto back of tile.

If adhesive is skinned over (not sticky), remove and replace with fresh adhesive.

Grouting

Grout installation after a minimum of 24 hours curing time at 70° F(21° C). Grout with LATICRETE Sanded or Unsanded Grout mixed with LATICRETE 282 Grout Admix . For maximum stain resistance use LATAPOXY SP-100 Stainfree Grout.

Cold Weather Note: The setting of Portland cement adhesives and grouts are retarded by low temperatures. Protect finished work for an extended period when installing in cold weather. For faster setting adhesive use LATICRETE 73 Rapid with LATICRETE 111

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 adhesives and grouts is accelerated by hot, dry conditions. Apply to dampened surfaces and protect freshly spread adhesive and finished work when installing in temperatures over 95°F (35°C).

Cleaning

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

AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY ® materials are available worldwide.

For distributor information:

Telephone: +91-40-30413100

FAX: +91-40-23378784

e-mail: contact@myklaticrete.com

Cost

Contact a LATICRETE Distributor in your area.

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.

WARRANTY

MYK LATICRETE India Pvt Ltd warrants that LATICRETE ® 290 Premium Floor and Wall Thin-Set adhesive is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of one (1) year from date of purchase subject to the terms and conditions stated in LATICRETE Product Warranty

TECHNICAL SERVICES

Technical assistance

Information is available by calling the LATICRETE Technical Service at:

Telephone: +91-40-30413100

FAX: +91-40-23378784

e-mail: contact@myklaticrete.com

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