Technical Data Sheet

MYK LATICRETE

LATAFIX 305

Floor and Wall Tile Adhesive





Polymer based adhesive for fixing ceramic tiles and small format natural stone on dry areas of interior floor & interior wall

Features / Benefits

- Single component, just add water
- Interior applications, polymer based
- Economical & Easy to use
- Bonds to various substrates
- Exceeds ANSI A118.1T shear bond strength requirements
- Complies with EN / ISO with a C1T classification.
- Exceeds IS 15477:2019 – Type 1T Adhesive standards.
- Can be fortified with latex admix for external Tile and Stone installations.

Substrates

- Concrete
- Concrete Masonry
- Cement Mortar Beds
- Cement Plaster
- Ceramic Tile*
- Brick Masonry
- Cement Terrazzo
- Existing Natural Stone*

* Surface to be cleaned and roughened before installation of tiles or stones.

Application

Designed especially for dry areas of interior floor and interior wall installations of all types of ceramic tile-and small format natural stones over concrete and on a variety of cement-based substrates. Can be used up to maximum 12mm bed thickness.

Certifications

IS 15477:2019 Type: EN / ISO: C1T

A118.1T

Member of Indian Green Building Council

Approved American National Standards ANSI

PERFORMANCE PROPERTIES

LATAFIX 305 Adhesive mixed with Water

Applicable Standards:
ANSI A118.1-1999; EN 12004 & ISO 13007; IS15477:2019

ANSI Data		
Property : Test method	**Requirement**	**Typical Values**
Open Time (20 Minutes at 28 days): ANSI A118.1 Clause – 5.3	≥75 psi (0.50 MPa)	95 psi – 100 psi (0.65 – 0.69 MPa)
Sag: ANSI A118.1- Clause 6.0	≤0.02 Inches (0.50 mm)	0.016 – 0.018 Inches (0.40-0.45 mm)
Glazed wall tile Shear Strength		
7 Days: ANSI A118.1 – Clause 7.1.2	>200psi (1.38 MPa)	200-225 psi (1.38 -1.55 MPa)
7 Days Water immersion: ANSI A118.1- Clause 7.1.3)	>150psi (1.03 MPa)	150-175 psi (1.03 -1.20 MPa)
Porcelain Mosaic Tile Shear Strength		
1 Day: ANSI A118.1 – Clause 7.2.2	>50psi (0.34 MPa)	50 -75 psi (0.34 -0.51 MPa)
7 Days: ANSI A118.1 – Clause 7.2.3	>150psi (1.03 MPa)	150-175 psi (1.03 -1.20 MPa)
7 Days Water immersion: ANSI A118.1 – Clause 7.2.4	>100psi (0.69 MPa)	125-150 psi (0.86 -1.03 MPa)
28 Days: ANSI A118.1 – Clause 7.2.5	>150psi (1.03 MPa)	150-175 psi (1.03 -1.20 MPa)
12 Weeks: ANSI A118.1 – Clause 7.2.6	>150psi (1.03 MPa)	150-175 psi (1.03 -1.20 MPa)

The adhesive mortar conforms to ANSI A 118.1T

EN / ISO Data		
Property: Test Method	**Requirement**	**Typical Values**
Open Time: EN 1346	≥0.50 N/mm²	0.65 – 0.70 N/mm²
Slip Resistance: EN 1308	≤0.50 mm	0.30-0.35 mm
Tensile Adhesion Strength		
Initial: EN 1348 – Clause 8.2	≥0.50 N/mm²	0.65 – 0.75 N/mm²
After Water Immersion : EN 1348 - Clause 8.3	≥0.50 N/mm²	0.55 – 0.65 N/mm²
Heat Ageing: EN 1348 – Clause 8.4	≥0.50 N/mm²	0.50 – 0.60 N/mm²
Freeze- Thaw: EN 1348 – Clause 8.5	≥0.50 N/mm²	0.50 – 0.60 N/mm²

The adhesive mortar conforms to EN12004 / ISO 13007 as C1T

IS Data		
Property: Test method	**Requirement**	**Typical Values**
Tensile Adhesion		
Dry Condition – Annex A (Clause 5.1)	Minimum 0.50 N/mm²	0.65-0.75 N/mm²
Shear Adhesion		
Dry Condition – Annex B (Clause 5.2)	Minimum 1.00 N/mm²	1.05-1.15 N/mm²
Slip Resistance		
Slip Resistance – Annex E (Clause 5.5)	≤0.50 mm	0.30-0.35 mm

The Adhesive mortar conforms to IS 15477: 2019 - Type 1T Adhesive

Packaging:

20 kg & 50 kg bags

Colour:

Grey

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

Coverage:

Approx. 55-60 Sft per 20 Kg pack, using 1/4 x 1/4 (6 mm × 6 mm) square notched trowel for a bed of 3mm.

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

Working Properties at 70° F (21° C)

LATAFIX 305 Adhesive mixed with Water

Pot Life	2 - 3 Hours
Time to Heavy Traffic	16 - 24 hours

Specifications subject to change without notification. The 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 104° F (40 °C) and structurally sound, clean and free of all dirt, oil, grease, loose peeling paint, laitance, concrete sealers or curing compounds.

Check the surface to be true to plumb. All slabs must be plumb and true to within ¼"(6mm) in 10 ft (3m). Rough or uneven concrete surfaces should be made smooth with MYK LATICRETE® Screed/Plaster material 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 mortar is mixed with latex additive.

Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Do not cover expansion joints with thin set mortar. Follow ANSI Specification AN-3.8 "Requirements for Expansion Joints" or TCA Detail EJ171 "Expansion Joints". For tile installation over the Cement Backer Board: follow TCA installation details W244.

NOTE: For tile or stone installations on plywood and wood substrates, MYK LATICRETE DWA 215 OR MYK LATICRETE DWA 215 PLUS OR MYK LATICRETE PUA 212 is recommended. Please refer specific product Technical Data Sheet for detailed recommendations.

Mixing:

Place clean, potable water into a clean mixing bowl. Add LATAFIX 305 powder into the mixing bowl. Use approximately 3.6 – 4.2 L of water for 20 kg of powder.

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

Note: Addition of LATICRETE® latex admix*, partially or completely replacing water would enhance the bond strength, flexibility of the thinset mortar.

* Contact MYK LATICRETE technical services for large format tile or stone installations on exterior surfaces.

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 ensure full bedding of the tile. Spread as much adhesive as can be covered with tile in 10 minutes. Back butter large format 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 the adhesive for complete coverage by periodically removing a tile and inspecting bedding adhesive transfer onto back of tile. Use of MYK LATICRETE spacer is recommended to provide grout joints between tiles / stones. The joint width shall be as per the recommendation of architect / engineer. Remove the spacers when the adhesive is set firm.

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

For highly absorbent natural stones which may form a wet patch when adhesive is used, it is recommended to use suitable Laticrete Impregnating sealers on all sides. LATICRETE 3642 Latex admix can also be used as a bottom coat for natural stones to prevent or reduce wet patches during installation. Please refer Technical Data Sheets of product intended for use for specific instructions of use

HOT & COLD WEATHER TILING:

* Please refer to technical document on Hot & Cold weather tiling

Grouting:

Grout installation shall be commenced after a minimum of 24 hours curing time at 70 °F (21° C). Grout with MYK LATICRETE® Sanded or Unsanded Grout mixed with MYK LATICRETE® 1776 Grout Admix Plus.

For maximum stain resistance of Internal spacer joints applications, uses SP-100 Stainfree Grout OR MYK LATICRETE Stellar grout

CUSTOMER CARE

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