



MYK LATICRETE

LATICRETE® 325 High Flex Ag SILVER Floor And Wall Tile Adhesive



High polymer modified adhesive for fixing tiles and natural stone on interior and exterior floors & walls.

Features / Benefits

- Single component, just add water
- High strength, polymer modified
- Economical & Easy to use
- Can be used up to a maximum of 12 mm bed thickness.
- Bonds to various substrates
- Exceeds ANSI A118.4 shear bond strength requirements
- Complies with EN / ISO with a C2TE classification.
- Exceeds IS 15477:2019 – Type3 T Adhesive standards.
- Water and shock resistant.

Application

Designed especially for interior and exterior floor and wall installations of all types of ceramic tile, vitreous/vitrified, semi-vitreous tile, glass mosaic tiles, precast terrazzo, - and natural stones over concrete and on a variety of substrates. Good underwater shear bond allows this product to be used for wet areas like swimming pools, saunas, water bodies and washrooms. It be used for tile on tile applications & also as a slurry bond adhesive in wet on wet applications

- Concrete & Concrete Masonry
- VDF / Tremix Concrete
- Cement Mortar Beds
- Cement Plaster
- Ceramic tile, Vitrified Tile and Natural Stone
- Glass mosaic tile
- Brick Masonry
- Cement Backer Board**
- Cement Terrazzo
- Calcium Silicate Board**
- Gypsum Wallboard**

**Consult the backer board manufacturer's data sheet for the specific board's specific recommendations and load bearing capacity.

Certificates

IS 15477:2019 - Type: 3 T EN: C2TE

Member of
Indian Green Building Council



TECHNICAL DATA

Performance Properties:

LATICRETE® 325 High Flex Ag Silver Adhesive mixed with Water

Applicable Standards:

ANSI A118.4; EN 12004 & ISO 13007; IS15477:2019

ANSI Data		
Property: Test method	Requirement†	Typical Values
Open time (30 Minutes at 28 days): ANSI A118.4 Clause – 5.3	≥75 psi (0.50 Mpa)	120 psi – 140 psi (0.82 – 0.96 Mpa)
Sag: ANSI A118.4- Clause 6.0	≤0.02 Inches (0.50 mm)	0.012 – 0.016 Inches (0.30- 0.40 mm)
Glazed wall tile Shear Strength		
7 Days: ANSI A118.4 – Clause 7.1.2	>300psi (2.07Mpa)	325-350 psi (2.23 Mpa-2.40 Mpa)
7 Days Water immersion: ANSI A118.4- Clause 7.1.3)	>200psi (1.38Mpa)	225-250 psi (1.54 Mpa-1.72 Mpa)
Porcelain Mosaic Tile Shear Strength		
1 Day: ANSI A118.4 – Clause 7.2.2	>75psi (0.50Mpa)	125 - 175 psi (0.86 – 1.20 Mpa)
7 Days: ANSI A118.4 – Clause 7.2.3	>200psi (1.38Mpa)	250 - 275 psi (1.72 – 1.89 Mpa)
7 Days Water immersion: ANSI A118.4 – Clause 7.2.4	>150psi (1.03Mpa)	200 - 250 psi (1.37 – 1.72 Mpa)
28 Days: ANSI A118.4 – Clause 7.2.5	>200psi (1.38Mpa)	250 - 300 psi (1.72 – 2.06 Mpa)
28 Days: Freeze-Thaw cycling. ANSI A118.4 – Clause 7.2.5	>175psi (1.20Mpa)	225 - 275 psi (1.54 – 1.89 Mpa)
12 Weeks: ANSI A118.4 – Clause 7.2.7	>200psi (1.38Mpa)	250 - 300 psi (1.72 – 2.06 Mpa)
Quarry Tile Shear Strength		
28 Days: ANSI A118.4 – Clause 7.3.2	>150psi (1.03Mpa)	200 - 250 psi (1.37 – 1.72 Mpa)
28 Days: Freeze-Thaw cycling. ANSI A118.4 – Clause 7.3.3	>100psi (0.69Mpa)	150 - 200 psi (1.03 – 1.37 Mpa)

EN / ISO Data		
Property: Test Method	Requirement	Typical Values
Open Time: EN 1346	≥0.50 N/mm ²	0.75 – 1.00 N/mm ²
Slip Resistance: EN 1308	≤0.50 mm	0.25 - 0.35 mm
Tensile Adhesion Strength		
Initial: EN 1348 – Clause 8.2	≥1.00 N/mm ²	1.25 – 1.50 N/mm ²
After Water Immersion: EN 1348 - Clause 8.3	≥1.00 N/mm ²	1.25 – 1.50 N/mm ²
Heat Ageing: EN 1348 – Clause 8.4	≥1.00 N/mm ²	1.00 – 1.25 N/mm ²
Freeze-Thaw: EN 1348 – Clause 8.5	≥1.00 N/mm ²	1.25 – 1.50 N/mm ²

The adhesive mortar conforms to EN12004 / ISO 13007 as C2TE

IS Data		
Property: Test method	Requirement	Typical Values
Tensile Adhesion		
Dry Condition – Annex A (Clause 5.1)	Minimum 1.5 N/mm ²	1.55-1.65 N/mm ²
Wet Condition – Annex A (Clause 5.1)	Minimum 1.0 N/mm ²	1.10-1.20 N/mm ²
Shear Adhesion		
Dry Condition – Annex B (Clause 5.2)	Minimum 1.5 N/mm ²	1.60-1.70 N/mm ²
Heat Ageing – Annex B (Clause 5.2)	Minimum 1.0 N/mm ²	1.10-1.20 N/mm ²
Wet Conditions – Annex B (Clause 5.2)	Minimum 1.0 N/mm ²	1.15-1.25 N/mm ²
Slip Resistance		
Slip Resistance – Annex E (Clause 5.5)	≤0.5 mm	0.35-0.45 mm

The Adhesive mortar conforms to IS 15477: 2019 - Type 3T Adhesive

Packaging:

5 kg, 20 kg & 50 kg bags

The adhesive mortar conforms to ANSI A118.4ET

Shelf Life:

Factory sealed containers of this product are guaranteed to be of first quality for (1) year * If stored off the ground in a dry area

. *High humidity will reduce the shelf life of bagged product

Colour:

Grey and white

Coverage:

Approx. 55 Sft per 20 kg pack using 1/4 x 1/4 (6mm x 6mm) square notched trowel for a bed of 3mm. (Can be used up to a maximum bed thickness of 12 mm) 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)

LATICRETE®325 High Flex Ag Silver Adhesive mixed with Water

Open Time	30 minutes
Adjustability Time	30 minutes
Pot Life	4 hours
Time to Foot Traffic	16 – 24 hours
Time to Heavy Traffic	28 Days

Specifications are subject to change without notification. The results shown are typical but reflect the 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 accurate to within " " 1/4" (6mm) in 10 ft(3m). Rough or uneven concrete surfaces should be smooth with LATICRETE® Screed/Plaster material to provide a wood float (or better) finish. Dry, dusty concrete slabs or masonry should be dampened and excess water must be 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 Cement Backer Board: follow TCA installation details W244.

NOTES: 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.

For all stones with a back-protection mesh, it is essential to remove the mesh first and also remove the epoxy layer by light grinding to ensure a perfect bond with the adhesive.

Mixing:

Place clean, potable water into a clean mixing bowl. Add LATICRETE® 325 High Flex powder into the mixing bowl. Use approximately 5.5 – 6L of water for 20 kg of powder.

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

Note: The addition of MYK LATICRETE® latex, admix*, partially or wholly replacing water would enhance the bond strength, and flexibility of the thinset mortar.

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

b) Tile/Stone

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 the wet, sticky adhesive and beat in using a beating block

and rubber mallet to imbed tile and adjust the level. Check

adhesive for complete coverage by periodically removing a tile and inspecting bedding adhesive transfer onto the back of the tile. Use of MYK Laticrete spacers is recommended to provide grout joints between tiles/stones. The joint width shall be as per the recommendation of the architect/engineer. Remove the spacers when the adhesive is set firm.

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

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

b) Glass Mosaic tiles (Paper faced)

The LATICRETE® 325 High Flex adhesive shall be applied to the surface to be tiled with a notched trowel using a scraping motion to work the adhesive into good contact with the surface to be covered. Notch trowel with notches approximately

APPLICATION:

4mm is recommended to get a bed thickness of 1.5-2mm. V-notch of 3mm also can be used to get bed thickness of 1.5mm. Apply only so much that can be covered with tile within 10-15 minutes or while the adhesive surface is still tacky. The Glass Mosaic tiles shall then be set in place and beaten gently with mallet or grouting float to insure 100% full bedding. Tiles shall be aligned to achieve uniform joints and then allowed to set until firm. Excess adhesive must be cleaned from the surface of the tile with a wet cloth or sponge while the adhesive is fresh and has not hardened.

After the tiles are set firm, the face of the sheets of front mounted glass mosaic tiles shall then be dampened and the face mount paper can be removed.

NOTE: For glass mosaic tiles and other type of tiles with fiber glass mesh backing, it is advised to remove the mesh completely and tile back surface is cleaned thoroughly before installation of tiles. In case the mesh removal is not possible, it is recommended to use Resin based adhesives like MYK Laticrete PUA 212

c) Wet on Wet System

LATICRETE® 325 High Flex can also be used as an alternative to cement in slurry form in wet on wet system

NOTE TO THE SPECIFIER AND INSTALLER:

While installing tile/stone on the external walls and floors, we need to provide the joints by creating spaces between the tiles/stones and fill them up with MYK LATICRETE® cement-based grout mixed with MYK Laticrete 1776 grout admix plus or flexible grout (In the absence of spacer joints, the surface movements can push tiles/stones away from the substrate causing de-bonding of tiles or stones). The exterior tile/stone installations are provided with joints (spaces) on the area's periphery without allowing the tile/stone to be bound by the peripheral masonry work or plaster.

Tile & Stone installations on ceilings: While installing tiles or stones on the concrete ceilings and cement-based substrates, it is advised to check the pull-off strength of the substrate before installation as cement-based substrates are weak in cohesive strength, unless fortified by admixtures or polymer treatment. This is an essential check for all overhead installations.

HOT & COLD WEATHER TILING:

* Please refer technical document on Hot & Cold weather tiling

Grouting:

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

For maximum stain resistance of Internal spacer joints applications, use, SP-100 Stainfree Grout. For maximum stain resistance of External spacer joints applications, use MYK Laticrete Stellar Grout, which can accommodate movements and is UV resistant.

Customer Care

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