

**MYK LATICRETE****Technical Data Sheet**

LATICRETE® 325 SW

Premium Adhesive for Shear Wall



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

Features / Benefits

- Single component, just add water
- High strength, polymer modified
- Good transfer rate- No hollow sound
- Resistance against shrinkage cracks
- Good impact resistance
- Economical & Easy to use
- Bonds to various substrates
- Can be used up to a thickness of 15mm
- Complies to EN 12004 for C2T designation
- Meets the requirements of Type 2 T as per IS 15477: 2019
- Exceeds ANSI A118.4 shear bond strength requirements.

Application

Designed for interior floor and wall installations and external floor installations of all types of ceramic tile, vitrified tile, precast Cement terrazzo and natural stones over concrete and a variety of cement-based substrates, especially on low absorbent cement substrates like MIVAN/Shear Walls. Can be used up to maximum 15 mm bed thickness."

Substrates

- Concrete & Concrete Masonry
- Mivan / shear walls
- VDF / Tremix Concrete
- Cement Mortar Beds
- Cement Plaster
- Ceramic tile, Vitrified Tile and Natural Stone
- Brick Masonry
- Cement Terrazzo*
- Existing Natural Stone*

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

Certifications

IS 15477: 2019
Type: 2 T

EN 12004: C2T



TECHNICAL DATA

Performance Properties:

LATICRETE® 325 SW 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)	100 psi – 120 psi (0.68 – 0.82 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)	100 - 150 psi (0.68 – 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)	175 - 225 psi (1.21 – 1.55 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 –	>100psi (0.69Mpa)	150 - 200 psi (1.03 – 1.37

Clause 7.3.3		Mpa)
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The adhesive mortar conforms to ANSI A118.4 T

EN / ISO Data		
Property: Test Method	Requirement	Typical Values
Open Time: EN1346 at 20 minutes	≥0.50 N/mm²	0.75 – 0.85 N/mm²
Slip Resistance: EN1308	≤0.50 mm	0.25 - 0.35 mm
Tensile Adhesion Strength		
Initial: EN 1348 – Clause 8.2	≥1.00 N/mm²	1.35 – 1.45 N/mm²
After Water Immersion: EN 1348 - Clause 8.3	≥1.00 N/mm²	1.25 – 1.35 N/mm²
Heat Ageing: EN 1348 – Clause 8.4	≥1.00 N/mm²	1.00 – 1.10 N/mm²
Freeze- Thaw: EN 1348 – Clause 8.5	≥1.00 N/mm²	1.25 – 1.35 N/mm²

The adhesive mortar conforms to EN12004 / ISO 13007 as C2T

IS Data		
Property: Test method	Requirement	Typical Values
Tensile Adhesion		
Dry Conditions – Annex A (Clause 5.1)	Minimum 1.00 N/mm²	1.35-1.45 N/mm²
Wet Conditions – Annex A (Clause 5.1)	Minimum 1.00 N/mm²	1.25-1.35 N/mm²
Shear Adhesion		
Dry Conditions - (Annex B (Clause 5.2)	Minimum 1.25 N/mm²	1.30-1.40 N/mm²
Heat Ageing - Annex B (Clause 5.2)	Minimum 1.00 N/mm²	1.10-1.15 N/mm²
Wet Conditions - Annex B (Clause 5.2)	Minimum 1.00 N/mm²	1.15-1.25 N/mm²
Slip resistance - Annex E (Clause 5.5)	≤0.5 mm	0.3-0.4 mm

The Adhesive mortar conforms to IS 15477: 2019 - Type 2 T
 Adhesive
 Packaging:
 50 kg bags
 Colour:
 Grey

Coverage: Per 50 Kg bag when mixed with water:

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

Trowel Size	Bed Thickness	Minimum Coverage	Maximum Coverage
6 x 6 mm Square Notch	3 mm	175 ft ²	200 ft ²
9 x 9 mm Square Notch	4.5 mm	117 ft ²	133 ft ²
12 x 12 mm Square Notch	6 mm	88 ft ²	100 ft ²

Working Properties at 70° F (21° C)
LATICRETE®325 SW Adhesive mixed with Water

Open Time	20-25 minutes
Adjustability Time	20-25 minutes
Pot Life	4-5 hours
Time to Foot Traffic	16 - 24 hours
Time to heavy Traffic	28 Days

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 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 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 adhesive 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 stone with a back-protection mesh, it is important to remove the mesh first and also remove the epoxy layer by light mechanical grinding to ensure perfect bond with the adhesive. DO NOT INSTALL TILE / STONE WITHOUT REMOVING THE PROTECTIVE BACK MESH AND CLEANING.

Mixing:

Place clean, potable water into a clean mixing bowl. Add LATICRETE® 325 SW Adhesive powder into the mixing bowl. Use approximately 13.5L to 15L of water for 50 kg of powder.

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

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

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

APPLICATION:

a) 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 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. Use of MYK Laticrete spacers 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 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 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 Technical Data Sheets of product intended for use for specific instructions of use

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 periphery (Peripheral joints) of the area without allowing the tile / stone to be bound by the peripheral masonry work or plaster.

HOT & COLD WEATHER TILING:

* Please refer technical document on Hot & Cold weathertiling

Grouting:

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

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

CUSTOMER CARE

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