Technical Data Sheet

MYK LATICRETE

LATICRETE® DWA 215

Modified PU Adhesive

Features / Benefits

- Single component, just open and use.
- High strength.
- Economical & Easy to use
- Bonds to various substrates
- Complies with EN / ISO with a D2TE classification.
- Water and shock resistant.

Modified Polyurethane adhesive for fixing ceramic, vitrified, Glass mosaic tile and natural stone on various types of drywall boards and clean dry cement surfaces

Substrates

- Concrete* & Concrete Masonry*
- MIVON Concrete*, VDF*, Tremix Concrete*
- Cement Mortar Beds* & Cement Plaster*
- AAC Block Masonry Walls*
- Ceramic tile, Vitrified Tile and Natural Stone
- Plywood board**
- Gypsum Wall board**
- Cement Backer Board**
- Cement Terrazzo*
- Calcium Silicate Board**
- Other resilient tile and stone

* All cement based surfaces should have been cured as per standard practices and shall be dry for tiling

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

NOTE: Not for use on Metallic and Plastic substrates and for metallic tiles.

Member of Indian Green Building Council

Approved American National Standards ANSI

EN: D2TES2

For commercial and residential installations of Glass Mosaic Tiles, ceramic tile, vitrified tile and natural stone over most drywall boards and clean cement based surfaces. Used where installations must resist physical abuse, shock, and mild chemicals. (Interior & Exterior)

A136.1

TECHNICAL DATA

Performance Properties:
LATICRETE® DWA 215

Applicable Standards:
ANSI A136.1; EN 12004 & ISO 13007

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)	130 psi – 150 psi (0.89 – 1.03 Mpa)
Sag: ANSI A118.4- Clause 6.0	≤0.02 Inches (0.50 mm)	0.008 – 0.012 Inches (0.20-0.30 mm)
Glazed wall tile Shear Strength		
Room Temp: ANSI A136.1 – Clause 6.2.3.1	>50psi (0.33Mpa)	150-175 psi (1.03 Mpa-1.20 Mpa)
7 Days Water immersion: ANSI A136.1- Clause 6.2.3.2)	>50psi (0.33Mpa)	100-150 psi (0.66 Mpa-1.03 Mpa)
28Days : ANSI A136.1- Clause 6.2.3.3)	>50psi (0.33Mpa)	150-175 psi (1.03 Mpa-1.20 Mpa)

The adhesive mortar conforms to ANSI A136.1

EN / ISO Data		
Property: Test Method	**Requirement**	**Typical Values**
Open Time: EN 1346	≥0.50 N/mm²	1.50 – 1.90 N/mm²
Slip Resistance: EN 1308	≤0.50 mm	0.20 - 0.30 mm
Tensile Adhesion Strength		
Initial: EN 1348 – Clause 8.2	≥1.00 N/mm²	1.75 – 2.00 N/mm²
After Water Immersion : EN 1348 - Clause 8.3	≥1.00 N/mm²	1.00 – 1.25 N/mm²
Heat Ageing: EN 1348 – Clause 8.4	≥1.00 N/mm²	1.75 – 2.25 N/mm²
Freeze- Thaw: EN 1348 – Clause 8.5	≥1.00 N/mm²	1.25 – 1.45 N/mm²

The adhesive mortar conforms to EN12004 / ISO 13007 as D2TES2

Packaging:

10 kg & 20 kg

Colour:

Off white

Shelf life:

12 months from date of manufacture when stored unopened in a cool, dry place between 10°C and 35°C

Coverage:

Approx 55-58 sftper 20kg pail with 1/4" x 1/4" (6mm x

6mm) square notched trowel for average 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)

LATICRETE® DWA 215

Open Time	30 minutes
Adjustability Time	20 minutes
Pot Life	4 hours
Time to Foot Traffic	refer Curing Time and Conditions chart

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 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.

NOTE: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.

3. DO NOT bond to particle board, luan, Masonite® or hardwood surfaces.

For green and moisture sensitive marbles, use LATAPOXY®300 Epoxy Adhesive.

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

Mixing:

LATICRETE® DWA 215 Modified PU Adhesive is a single component, ready to use adhesive. Open the lid of the pail, mix with a scoop or trowel and apply with the proper sized notched trowel. Take out only the amount of adhesive required for use and keep the lid of the pail closed to prevent skinning of the adhesive in the pail.

Note:

Keep the lid of the pail closed for future use of remaining product.

It is suggested to see that the product is kept under recommended storage conditions for effective performance.

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

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.
APPLICATION CHECKS: LATICRETE® DWA 215 may take more time to cure:

1. If both substrate and tile are not highly absorbent.
2. When large format tile or stone is being installed.
3. High humidity in the environment.

In such cases, it is recommended to keep the supports for extended periods as required at site.
If the bed thickness of LATICRETE® DWA 215 is expected to be more than 5mm due to plumb issues, it is recommended to apply one layer of adhesive either on substrate or on the back of tile/ stone first and to leave it for about 12 hours to become dry. Plan to apply this first layer of adhesive with allowance of approximately 3mm bed thickness for installation of tile/stone. After the adhesive dries out, the installation can be carried out using LATICRETE® DWA 215 by applying the balance thickness.

NOTE: If adhesive from an open pail is not completely used, seal the pail tightly with the lid and store properly for future use.

Dry Wall application Note:
While using LATICRETE® DWA 215 adhesive to install tiles/stone on Dry wall boards like Plywood, Cement Backer board, Calcium Silicate Board, Gypsum wall board, it is important to check with the manufacturer of the board, for the load bearing capacity and internal strength of the board to sustain the loading of tiles and stones. It is recommended to commence work only on such confirmation and seek from them, the methodology of fixing of boards to keep them stable without moving and (warping) bending.

While installing tiles and stones with LATICRETE® DWA 215, modified PU adhesive, on dry wall boards, it is important to see that the joint spaces between the adjacent boards should be carried up to the top of tile and the adhesive mortar is not allowed to enter the space between the boards.
It is recommended to use spacers to create joints while tiling on the drywall boards using LATICRETE® DWA 215.
While filling up the joints between the tiles and stones installed on dry wall boards use highly flexible grout material like MYK Laticrete Stellar Grout or silicone sealants or PU sealants. All plane changes, corners and differential elements must be provided with adequate spacers and shall be filled with flexible filler materials like silicone sealants, acrylic or PU sealants

Cold Weather Note: The setting of PU mortars and grouts are slowed down by low temperatures. Protect finished work for an extended period, with supports, when installing in cold weather. For faster setting, provide heating arrangement to increase ambient temperature at site. Do not set tile when surface temperature is below freezing or when substrate is frozen.

Hot Weather Note: The evaporation in PU mortars is accelerated by hot, dry conditions. Apply only when temperature conditions are within the specified range of temperature and protect freshly spread mortar and finished work when installing in temperatures over 95°F (35°C).

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 of the area without allowing the tile / stone to be bound by the peripheral masonry work or plaster.

Grouting:

Grout installation shall be commenced after a minimum of 24 hours curing time at 70°F (21° C).

Grout with MYK Laticrete Stellar Grout, which can accommodate movements and is UV resistant.

Storage: Laticrete® DWA 215 adhesive should be stored in room temperature (Range from 10□C to 35□C) for best results.

Curing Time and Conditions for Tile and Stone Installation					
SL.No:	Condition	Tile/Stone Size	Notes	Tentative Curing Pattern	Remarks
1	Rainy Weather	1' x 1'	High humidity prolongs curing; continuous rain delays: Non-absorbent tiles/stones & Non-absorbent substrate	> 48 hours	Do not remove the external supports until the material achieves the minimum curing as per recommendations.
		2' x 2'		> 3 days	
		If Absorbent	Variable based on conditions.	May cure in 48 hours	
2	Winter / Cooling Weather / High Humidity	1' x 1'	Cooling weather prolongs curing: Non-absorbent tiles/stones & Non-absorbent substrate	> 48 hours	
		2' x 2'		> 3 days	
		If Absorbent	Variable based on conditions.	May cure in 48 hours	
3	Summer	1' x 1'	Absorbent tiles/stones/substrate	Approximately 24 hours	
		2' x 2'	Non-absorbent tiles/stones/substrate	Exceeds 48 hours	
		If Absorbent	Variable based on conditions.	May cure in 48 hours	
4	Material Bed Thickness	Thicker Beds (when beyond 3mm)	The curing impacts and takes longer time.	Longer curing times	
5	Waterproof Substrate	All Sizes	Curing may take longer if substrate is waterproof.	Delayed curing	
Note: If the customer has any clause points or notes beyond these, please contact our technical team for better suggestions.					

CUSTOMER CARE

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