



**MYK LATICRETE**

## LATICRETE® 3642 Latex Concentrate



LATICRETE® 3642 Latex Concentrate admix which is diluted with water on site and then mixed with LATICRETE® 226 to make thick bed adhesive, cement plasters, mortar beds and screeds. Also can be used as a primer & bonding agent for subsequent cement based repairs and refurbishment works

### Features / Benefits

- Greatly improved compressive strength, when mixed with Cement sand mortars, Laticrete 226 thick bed adhesive.
- Enhanced flexibility in mortars and plasters
- Lower water absorption
- Improved adhesion
- More plastic mortars
- Resistant to thermal and seismic shock
- Can be used as primer for various dry wall boards before tile and stone installation.
- Concrete & Concrete Masonry
  - VDF / Tremix Concrete

### Application

Designed especially for interior and exterior floor & wall installations of cement based mortar modification and to make thick bed adhesive mortar for installation of tiles or stones. It can be used as a primer for cement, gypsum and calcium based drywall boards and plaster, concrete surfaces for subsequent cement based mortar applications and repairs. Can be modified with neat cement to make highly water resistant membrane to curtail capillary rise in brick walls.

### Substrates

- Cement Mortar Beds
- Cement Plaster
- Wood floor\*\*
- Brick Masonry
- Cement Backer Board\*\*
- Cement Terrazzo
- Calcium Silicate Board\*\*
- Gypsum Wallboard\*\*

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

### Certifications

Member of  
Indian Green Building Council



## TECHNICAL DATA

### Performance Properties:

LATICRETE® 3642, Latex concentrate diluted and mixed with Laticrete 226 to make a thick bed adhesive.

### Applicable Standards: For thickbed adhesive made with Laticrete 226:

ANSI A118.7; EN 13813

ANSI Data		
Property : Test method	Requirement	Typical Values
Compressive Strength - ASTM C 109	20 N/mm <sup>2</sup>	22-25 N/mm <sup>2</sup>
Flexural Strength - ASTM C 580	7 N/mm <sup>2</sup>	9.5-11 N/mm <sup>2</sup>
Tensile Strength - ASTM C 307	3.50 N/mm <sup>2</sup>	3.75-4.5 N/mm <sup>2</sup>

The adhesive mortar conforms to ANSI A118.7

EN Data		
Property: Test Method	Requirement	Typical Values
Compressive Strength - EN 13892-2	20 N/mm <sup>2</sup>	21-24 N/mm <sup>2</sup>
Flexural Strength - EN 13892-2	10 N/mm <sup>2</sup>	10 – 12 N/mm <sup>2</sup>
Bond Strength - EN 13892-8	1.50 N/mm <sup>2</sup>	1.50 – 2.00 N/mm <sup>2</sup>
BRE Drop Hammer Test – BS:8204	2-3mm	2-3 mm

The adhesive mortar conforms to EN13813 as CT-C20F10B1.5

### Packaging:

5 Ltrs & 20 Ltrs pail.

### Colour:

White

### Shelf Life

Factory sealed packs of this product are guaranteed to be of first quality for two (2) years\* if stored off the ground in a dry area.

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

### Coverage: For Thick bed adhesive:

Coverage will be based on following mix design.

Thickness	L226	L3642	Water	Coverage
12 mm	50 kg	1.25 liter	3.75 liter	25 Sft
25 mm	50 kg	1.25 liter	3.75 liter	12 Sft
35 mm	50 kg	1.0 liter	4.0 liter	8 Sft
50 mm	50 kg	0.83 liter	4.17 liter	5 Sft

Coverage will vary depending on flatness and evenness of substrate

### Working Properties at 70° F (21° C)

LATICRETE®3642, Latex liquid diluted with Water to make thick bed Adhesive, mixed Laticrete 226.

PROPERTY	TYPICAL VALUES
Recommended Ratio of L-3642 : Water (with 50 Kg bag of Laticrete 226 powder)	<b>1 :3 or 1: 4</b>
Dry Mortar Density	1950 – 2100 kg/m <sup>3</sup>
Pot Life	1 Hour
Time for Foot Traffic	≥ 24 Hours
Time for Heavy Traffic	≥ 72 Hours

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, concrete sealers or curing compounds.

Dry, dusty concrete slabs or masonry should be dampened and excess water swept off. Installation may be made on a damp surface. 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.

Glass Mesh Mortar Unit: follow TCA installation detail W244. In temperatures over 95°F (35°C).

#### **Mixing:**

**Stir LATICRETE® 3642 admixture thoroughly before use. Dilute the admixture as required with water.**

Use approx. 50kg of Laticrete 226 thick bed adhesive powder with diluted Laticrete 3642 as per coverage table given above. Mix by hand or with a slow speed mixer to semi dry consistency.

## APPLICATION

### **a) Thick bed adhesive**

Before placing mortar, apply a slurry bond coat made from Laticrete® 3642 latex concentrate pre-diluted with water 1:1 and mix with cement & sand in the ratio of 1:1. While the slurry bond coat is wet spread mortar & compact well.

For placing tiles apply another slurry bond coat over the mortar bed & install tiles.

In case of traditional system of tiling (Wet on Wet), Laticrete SBA 20, Slurry bond adhesive, mixed with approximately 8 Liters of water is best for installation of tiles. The tiles shall be placed & beaten in the mortar while the slurry bond adhesive is wet and sticky.

### **b) Floor Screeds**

Before placing mortar, apply bonding slurry of LATICRETE® 3642 pre-diluted with water 1:1 and cement: sand mixed in the ratio of 1:1.

While the bonding slurry is wet spread the mortar and compact well.

Follow the standard rules of creating the movement joints for Adhered screeds, Floating screeds and the thicknesses of respective screeds as per the international standards. For better performance of screeds, it is also recommended to use wire mesh as specified by the engineer at site.

### **c) Plaster**

Plumb, square and true wall with applications of mortar. Level, fill and patch block with site mix mortar or LATICRETE® 226 Thick Bed Mortar Mix gauged with pre-diluted LATICRETE® 3642.

Plasters made with LATICRETE® 3642 can be applied in thicknesses as great as 25 mm without the plaster slumping.

### **d) As Primer:**

Use neat Laticrete 3642 to do primer coat on cement based drywall boards. Use a brush or roller for uniformly applying coat of Laticrete 3642 over the drywall board. It can also be used as a back coat sealer for natural stones.

Coverage of Laticrete 3642 when used as neat coating shall vary depending on the substrate absorption and can be taken in the range of 1.5 Sq.Mtrs to 2.5 Sq.Mtrs per Liter.

### **e) As bonding agent:**

For bonding freshly made mortars to existing cement based substrates, bonding coat slurry can be made using Laticrete 3642 diluted with water in the ratio of 1:1. This diluted admix should be mixed with cement sand (mixed in the ratio of 1:1). Mix thoroughly without any lumps and apply using brush or roller to the substrate making sure the slurry is uniformly spread and keyed into the substrate.

**COVERAGE:** Laticrete 3642 when applied as given above shall cover approximately 2.5 Sq.Mtrs to 3 Sq.Mtrs per litre, depending on the absorption, evenness and levelness of the substrate.

### **f) Water resistant coating:**

Mix Laticrete 3642 with Cement in 1:1 ratio without any lumps. Apply the slurry with a brush on floor wall joints. Apply the coating to a distance of 75mm both on wall and floor from the joint. Apply a second coat after a time gap of 6 hours from the completion of 1<sup>st</sup> coating.

**NOTE:** The above can be used for water resistant sealer coat by replacing the cement with white cement.

**COVERAGE:** Laticrete 3642 when applied as given above shall cover approximately 2 Sq.Mtrs to 2.5 Sq.Mtrs per Litre, depending on the absorption, evenness and levelness of the substrate.

### **Cleaning**

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

### **NOTE TO THE SPECIFIER AND INSTALLER:**

While installing file/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 MYK Laticrete Stellar, 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.

**HOT & COLD WEATHER TILING:**

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

**Grouting: After tile/stone installation:**

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, 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**

**MYK LATICRETE India Pvt Ltd.**

Plot No. 30/C (Sy. No. 83/1), Orbit Building,  
17th Floor, Tower 1, Knowledge City, TSIC,  
Raidurg, Ranga Reddy Dist.,  
Hyderabad - 500 081, Telangana, INDIA.  
Tel: +91-40-67173100  
e-mail: cc@myklaticrete.com  
Website: www.myklaticrete.com