



Globally Proven
Construction Solutions

3642 Latex Concentrate

3642 Latex is a concentrated latex admix which is diluted with water on site and then mixed with portland cement and sand to make cement plasters, renders, coatings, mortar beds and screeds for concrete repairs. Portland cement mortars which have been modified with 3642 Latex have a greatly improved physical characteristics and can be used in exterior, interior, as well as underwater plasters, screeds and renders.



ADVANTAGES

- Greatly improved compressive strength
- Lower water absorption
- Improved adhesion
- More plastic mortars
- Resistant to thermal and seismic shock
- Standards : Conforms to ANSI A 118.4
(when mixed with 226 Thick bed mortar)

MANUFACTURER

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USES

- Diluted with clean water
- Used as the gauging liquid with all portland cement mortars, concrete, screeds, renders, stucco and plasters.

PACKAGING / COLOR

Packaging,

- 20 L pail 36 pails per pallet
- 200 L drum (special order)– 4 drums per pallet

Suitable Substrates

- Concrete
- Cement mortar beds
- Ceramic tile and stone
- Cement backer board*
- Gypsum wallboard (interior only)
- Cement plaster
- Brick masonry
- Cement terrazzo
- Concrete masonry

* Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.

Approximate Coverage

67m² per 20mm thick when mixed with LATICRETE Thick Bed Mortar

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years if stored at temperatures >0°C and <43°C.

Limitations

- Not for use as a thin-set mortar additive over exterior glue plywood.
- Use LATAPOXY 300 Adhesive for installing green marble or water sensitive stone and agglomerates and resin backed tile and stone.
- Use a white thin-set mortar when installing white or light-colored stone.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use a LATICRETE Waterproofing Membrane.

Note: Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations where L = span length.

Cautions

Consult MSDS for more safety information.

- During cold weather, protect finished work from traffic until fully cured.
- Wait 14 days after the final grouting period before filing water features with water at 21°C.
- Keep out of reach of children.

TECHNICAL DATA

Performance Properties

Typical properties of mortars made with LATICRETE® 3642 Latex Concentrate diluted 1:4 with water and mixed with LATICRETE 226 Thick Bed Mortar.

Test	Test Method	Results
Compressive Strength	ASTM C109	>30N/mm ²
Water Absorption	ASTM C413	<4%
Flexural Strength	ASTM C348	> 6N/mm ²
Tensile Adhesion Strength	BS 13892	> 3N/mm ²
TCNA Service Rating	ASTM C627	Extra Heavy

Working Properties

Mixed with LATICRETE 226 Thick Bed Mortar

Pot Life (25°C)	1 hour
Time to Light Traffic	24 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 8°C and 35°C and structurally sound, clean and free of all dirt, oil, grease, paint, concrete sealers or curing compounds.

Rough or uneven concrete surfaces should be made smooth with LATICRETE Latex Portland Cement Underlayment 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.

Note: Latex portland cement mortars do not require a minimum cure time for cement slabs. All slabs must be plumb and true to within 6 mm in 3 m. Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Follow ANSI

Specification A108.01-3.7 "Requirements for Movement Joints: Preparations by Other Trades" or TCNA detail EJ-171 "Movement Joints—Vertical & Horizontal". Do not cover expansion joints with mortar.

Mixing

Pre-dilute latex with water. For slurry bond coat, dilute 1 part of LATICRETE 3642 Latex Concentrate to 2 parts of clean water. For screed and plaster application, dilute 1 part of LATICRETE 3642 Latex Concentrate to 4 parts of clean water. Mix to a semi dry consistency for mortar beds and screeds. Mix to a more plastic consistency for renders, stucco and plasters. Clean sand up to 3mm in size may be used in screeds over 50mm in thickness. **Please do not mix other aggregates such as cement or sand etc to LATICRETE 3642 Latex Concentrate.**

Application**Bonded Method for Floor Screeds**

Before placing mortar, apply a bonding slurry coat. Dilute LATICRETE 3642 Latex Concentrate with clean water in the ratio 1:4. Mix a 27kg bag of LATICRETE 226 Thick Bed Mortar to 2.7ℓ - 3.1ℓ of diluted LATICRETE 3642 Latex Concentrate, yielding approximately 0.8 m² at 20 mm thick. Mix to a stiff, semi-dry consistency (refer to bag for mixing hints). Mixing ratio may vary depending on weight of finish.

While the bonding slurry is wet spread the mortar and compact well. If placing tile immediately, apply bonding slurry of LATICRETE 4237 Thin-Set Mortar Additive and LATICRETE 211 Crete Filler Powder to the mortar. While the bonding slurry is wet and sticky, place the tile and beat in well.

Non Bonded Method - Installation

Before placing mortar, place a 0.1 or 0.15 mm polyethylene cleavage membrane on the substrate. Place mortar to a depth of approximately 1/2 the finished bed thickness. Lay 50mm x 50mm 1.5mm gauge galvanized welded reinforcing wire fabric over mortar. Place additional mortar over wire and compact mortar by tamping with a flat trowel. If placing tile immediately, apply a bonding slurry coat of LATICRETE 4237 Thin-Set Mortar Additive and LATICRETE 211 Crete Filler Powder to the mortar. While the bonding slurry is wet and sticky, place the tile and beat in well.

Note: A slurry bond coat should also be applied to the edges of mortar beds installed from previous work periods.

Hot Weather Note: The evaporation of moisture in Portland cement mortars is accelerated by hot, dry conditions. Apply to dampened surfaces and protect freshly spread mortar and finished work in temperatures above 35°C.

Cold Weather Note:

The setting of portland cement mortars and grouts are retarded by low temperatures. Protect finished work for an extended period when installing in cold weather. For faster setting mortar use LATICRETE Thin-Sets with LATICRETE 101 Rapid Latex Admix. Do not set tile when surface temperature is below freezing or when substrate is frozen.

Cleaning

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

AVAILABILITY AND COST**Availability**

LATICRETE® materials are available worldwide. For distributor information, please contact LATICRETE Telephone: For on-line distributor information, visit www.laticrete.com

Cost

Contact a LATICRETE® closer distributor to obtain complete information and cost.

WARRANTY

LATICRETE Middle East LLC warrants that LATICRETE 3642 Latex Concentrate is free from manufacturing defect and will not break down, deteriorate or disintegrate under normal usage for a period of one (1) year from date of purchase subject to the terms and conditions.

TECHNICAL SERVICES**Technical assistance**

For information contact:

enquiry@laticrete.me

Technical and safety literature

To obtain technical and safety literature, please visit our website at www.laticrete.com

Warning

The information and the instructions in the data sheet, although based on knowledge gained through years of applications, are indicative. LATICRETE® unable to directly control the installation conditions and modalities of application of products, do not assume any liability arising from their implementation. Those who want to use the LATICRETE® products must conduct adequate tests to determine the site specifications. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation method and site conditions.