



**For the Builders  
of a Better World™**

## 3642 Latex Concentrate

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



### FEATURES/BENEFITS

- Greatly improved compressive strength
- Lower water absorption
- Improved adhesion
- Resistant to thermal and seismic shock

### MANUFACTURER

LATICRETE (Malaysia) Sdn Bhd  
#18-08, Faber Tower 2, Jalan Desa Bahagia,  
Taman Desa,  
58100 Kuala Lumpur, Malaysia  
Tel: +603 7989 9188 Fax: +603 7972 0331  
Internet: <https://ma.laticrete.com>

### 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

### USES

3642 Latex Concentrate is diluted with clean water and then used as the gauging liquid with all Portland cement mortars, concrete, screeds, renders, stucco and plasters

### PACKAGING

20ℓ/pail; 36 pails per pallet  
210ℓ/drum; 4 drums per pallet



This product has been certified green under the Singapore Green Building Council

**Approximate Coverage**

A drum of 3642 Latex Concentrate will yield a coverage of 350m<sup>2</sup> 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 < 40°C

**Limitations**

- Use LATAPOXY® 300 adhesive for installing green marble or water sensitive natural stone and agglomerates
- Not for use as a thin-set mortar additive over exterior glue plywood
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not designed as replacements for waterproof membranes. When a waterproof barrier is required, use a LATICRETE waterproof membrane
- 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. See TDS1011 for more details

**Cautions**

Consult MSDS for more safety information

- During cold weather, protect finished work from traffic until fully cured
- Allow a minimum 14 day cure after the final grouting period prior to filling water features with water
- Contains Portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water
- Do not take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas
- Keep out of reach of children

**TECHNICAL DATA****Performance Properties**

3642 Latex Concentrate diluted 1:4 with water mixed with 226 Thick Bed Mortar

Test	Test Method	Results
Compressive Strength (28 days)	ASTM C109	>30N/mm <sup>2</sup>
Water Absorption	ASTM C413	<4%
Flexural Strength (28 days)	ASTM C348	>6N/mm <sup>2</sup>
Tensile Adhesion Strength	BS 13892	>3N/mm <sup>2</sup>
TCNA Service Rating	ASTM C627	Extra Heavy

**Working Properties**

3642 Latex Concentrate diluted 1:4 with water mixed with 226 Thick Bed Mortar

Pot Life (25°C)	1 Hours
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 – 35°C and structurally sound, clean and free of all dirt, oil, grease, laitance, 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. Expansion joints shall be provided through the tile work from all construction of 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 3642 Latex Concentrate with water. For slurry bond coat, dilute 1 part 3642 Latex Concentrate to 2 parts of potable water. For screed and plaster application, dilute 1 part 3642 Latex

Concentrate to 4 parts of potable water. Mix to a semi-dry consistency for mortar beds and screed. 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 3642 Latex Concentrate**

### Application

#### Floor Screed (Bonded)

Before placing mortar, apply a slurry bond coat. Dilute 3642 Latex Concentrate with clean water in the ratio 1:4. Mix a 27kg bag of 336 Thick Bed Mortar to 2.7ℓ - 3.1ℓ of diluted 3642 Latex Concentrate, yielding approximately 0.8m<sup>2</sup> at 20mm 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 335 Premium Flexible Adhesive or other specified bonding coat to the mortar. While the bonding slurry is wet and sticky, place the tile and beat in well

#### Floor Screed (Unbonded)

Before placing mortar, place a 0.1 or 0.15mm polyethylene cleavage membrane on the substrate. Place mortar to a depth of approximately ½ 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 335 Premium Flexible Adhesive or other specified bonding coat 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

**Cold Weather Note:** The setting of Portland cement adhesives, mortars and grouts are retarded by low temperatures. Protect finished work for an extended period when installing in cold weather. For faster setting adhesive use LATICRETE Rapid Setting Thin-Set Adhesives and Additives. Do not set tile when surface temperature is below freezing or when substrate is frozen. For further information, see TDS1002

**Hot Weather Note:** The evaporation of moisture in Portland cement adhesives, mortars and grouts is accelerated by hot, dry conditions. Apply to dampened surfaces and protect freshly spread mortar and finished work when installing in temperatures over 35°C. For further information, see TDS1018

### Cleaning

Clean tools and tile work with water while mortar is fresh

## AVAILABILITY AND COST

### Availability

LATICRETE materials are available worldwide

For distributor information, call:

Telephone: +603 7989 9188

Fax: +603 7972 0331

For online distributor information, visit LATICRETE at <https://ma.laticrete.com>

### Cost

Contact a LATICRETE distributor in your area

## WARRANTY

LATICRETE (Malaysia) Sdn Bhd warrants that 3642 Latex Concentrate is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of one (1) year from date of purchase subjected to terms and conditions stated

## MAINTENANCE

LATICRETE grouts require routine cleaning with a neutral pH detergent and water. All stone and tiles should be maintained and sealed with STONETECH® products as appropriate for the specific tile / stone and installation situation. All other LATICRETE materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers

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**TECHNICAL SERVICE/CONTACT**

**Technical Assistance**

Information is available by calling:

LATICRETE (Malaysia) Sdn Bhd  
#18-08, Faber Tower 2, Jalan Desa Bahagia,  
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**Technical and safety literature**

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