



**Globally Proven  
Construction Solutions**

# 3642 LATEX

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.



## FEATURES/BENEFITS

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

## STANDARDS/CERTIFICATIONS

## MANUFACTURER

LATICRETE EUROPE S.R.L .

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## Packaging

20 ℓ (5.3 gal.) pail (48 per pallet)  
210 ℓ (55 gal.) drum (special order)

## Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years if stored at temperatures  $>0^{\circ}\text{C}$  ( $32^{\circ}\text{F}$ ) and  $<43^{\circ}\text{C}$  ( $110^{\circ}\text{F}$ ).

## Cautions

Wait 14 days after the final grouting period before filling water features with water at  $21^{\circ}\text{C}$  ( $70^{\circ}\text{F}$ ). Typical properties of mortars made with 3642 LATEX diluted 1:4 with water and mixed with 1 part portland cement: 3 parts sand.

## TECHNICAL DATA

TEST METHOD	RESULTS
Compressive Strength; ANSI A118.4–6	36–37 MPa (5075–5365 psi)
Flexural Strength; ANSI A118.6–4.7	7–9 MPa (1015–1305 psi)
Tensile Strength; ANSI A118.6–4.6	3–4 MPa (435–580 psi)

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

#### Floors and Concrete Toppings

Concrete surfaces should be clean, sound, free from laitance, efflorescence, dust, curing compounds, and contamination. Surface of concrete should be saturated and surface dry (SSD). For mortar mixes on floors, see Chart 1.

#### Wall Surfaces

Wall surfaces should be clean, free of contamination. Dusty surfaces should be washed and excess water allowed to run off, leaving the surface damp. For mortar designs for renders and vertical applications, see Chart 2.

## Mortar Designs

Chart 1

Screed	Thickness	Portland Cement	Sand*	3642/Water Ratio	3642 Usage liter/cm/m <sup>2</sup>
	10–30 mm	50 kg (110 lb.)	150 kg (1–3 mm) (330 lb.)	1:3	0.35
	> 30 mm	50 kg (110 lb.)	150 kg (1–5 mm) (330 lb.)	1:4	0.28

\* Clean, dry, sharp sand

Chart 2

Wall	Thickness	Portland Cement	Sand* (1–3 mm)	3642/Water Ratio	3642 Usage liter/cm/m <sup>2</sup>
Scratch Coat	0–2 mm	100 kg (220 lb.)	100 kg (220 lb.)	1:1	
Render	< 15 mm	50 kg (110 lb.)	125 kg (275 lb.)	1:3	0.4

## Mixing

Pre-dilute latex with 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 3 mm in size may be used in screeds over 50 mm in thickness.

## Application

### Bonded Method for Floor Screeds

Before placing mortar, apply a bonding slurry. While the bonding slurry is wet spread the mortar and compact well. If placing tile immediately, apply bonding slurry of 4237 Latex Additive and 211 Powder to the mortar. While the bonding slurry is wet and sticky, place the tile and beat in well.

### Non Bonded Method

Before placing mortar, place a 0.1 or 0.15 mm (4 or 6 mil) polyethylene cleavage membrane on the substrate. Place mortar to a depth of approximately 1/2 the finished bed thickness. Lay 50 mm x 50 mm 1.5 mm 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 of 4237 Latex Additive and 211 Powder to the mortar. While the bonding slurry is wet and sticky, place the tile and beat in well.

**Render**

Plumb, square and true wall with applications of mortar. Level, fill and patch block with site mix mortar or 226 THICK BED MORTAR gauged with pre-diluted 3642 LATEX. Renders made with site mix may slump if applied in more than 6 mm thickness. Renders made with 226 THICK BED MORTAR can be applied in thicknesses as great as 25 mm without the mortar slumping.

**Cold Weather Note:** The setting of portland cement mortars and grouts are retarded by low temperatures. Protect finished work for an extended period of time in cold weather. Do not install tile when surface temperature is below freezing or when substrate is frozen.

**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 (95°F).

**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 EUROPE S.r.l. Telephone +39 059557680. For on-line distributor information, visit [www.laticrete.com](http://www.laticrete.com)

**Cost**

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

**WARRANTY**

The supplier warrants that the product will not deteriorate under normal conditions and use. The warranty validity of one (1) year.

Contact Technical Support for further information.

**MAINTENANCE**

LATICRETE® products are of high quality designed to achieve lasting installations and avoid maintenance, however performance and durability may depend on properly maintaining products, depending of the cleaning products used.

**TECHNICAL SERVICES****Technical assistance**

For information contact: +39 059557680

[info@laticreteurope.com](mailto:info@laticreteurope.com)

**Technical and safety literature**

To obtain technical and safety literature, please visit our website at [www.laticrete.com](http://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.