

# 86 LatiLevel™

DS-1029-0312



## 1. PRODUCT NAME

LATICRETE® 86 LatiLevel™

## 2. MANUFACTURER

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## 3. PRODUCT DESCRIPTION

LATICRETE 86 LatiLevel is a cementitious powder that is mixed with water or LATICRETE latex to produce a free-flowing self-leveling underlayment mortar for rapid leveling of interior sub-floors. Can be poured from feather edge to 10 mm in one pour. LATICRETE 86 LatiLevel will produce a smooth and flat surface with excellent durability, which is ready for foot traffic in less than 4 hours at 21°C.

# Uses

For leveling uneven concrete and other nominated floors surfaces: smoothing rough, spalled concrete and finishing rough screed concrete slabs. Ideal for new construction and renovation projects, in both residential and commercial applications.

# **Advantages**

- From feather edge to 10 mm thickness in one pour.
- Economical and easy to use
- Fast setting
- 10 15 minute heal time
- Water resistant, non-shrinking
- Pumpable, free-flowing; eliminates sanding and troweling.
- Compatible with most adhesives

# **Suitable Substrates**

- Concrete
- Cement backer board\*^

- Ceramic tile and stone\*\*
- Cement mortar beds
- Cement terrazzo\*\*
- Over under tile heating cables/mats^
- Consult cement backer board manufacturer for specific installation recommendations When mixed with a LATICRETE® Latex.
- See 5. Installation-Surface Preparation

## **Recommended Coverings**

- Ceramic tile
- Carpet
- Linoleum
- Stone
- Vinyl tile
- Wood parquet
- Traffic bearing epoxy coatings

# **Packaging**

20 kg bag; 56 bags per pallet

#### **Available Colour**

Grev

# Primer

LATICRETE Multi Prime: 20 and 5 litre pails

# Approximate Coverage per 20 kg bag

Nominal Thickness	Approximate Coverage
3 mm	4 m²
6 mm	2 m²
12 mm	1 m²
18 mm	o.66 m²
25 mm	o.48 m²
40 mm	o.3 m²

#### **Shelf Life**

Factory sealed containers of this product are guaranteed to be of first quality for one (1) year\* if stored off the ground in a dry area at 18 – 26°C at 50% relative humidity.

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

#### Limitations

- Do not install when surface temperature is below 4°C.
- Do not install over painted or gypsum-based surfaces.
- Do not exceed recommended mixing ratio as indicated in mixing instructions. Over watering may weaken product properties.
- Never mix with cement or admixtures unless specified in this document.
- Not a wearing surface, must be covered with flooring.
- Not for use in submerged applications.

- Do not bond directly to particle board, MDF, Masonite® surfaces.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproof membranes. When a waterproof membrane is required, use a LATICRETE® Waterproof Membrane.

#### **Cautions**

- During cold weather, protect finished work from traffic until fully cured.
- There may be a need for perimeter isolation joints depending on thickness of application.
- 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.

## 4. TECHNICAL DATA

# Performance Properties when mixed with water

Test	Result
Compressive Strength	
1-day	20 MPa
7-day	25 MPa
28-day	30 МРа
Flexural Strength in 7 days	5 MPa

### **VOC Content**

Test Method	Result
SCAQMD Test 304-91	15 grams/litre

# Working Properties at 21°C when mixed with water

Property	Value
Working Time	15 – 20 minutes
Flow Time	10 – 15 minutes
Time to Foot Traffic	3 – 4 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.

# 5. INSTALLATION

# **Surface Preparation**

# **Installation Over Concrete Slabs.**

- Contaminated and/or highly trowelled, closed pored concrete surfaces must be shot blasted or mechanically abraded prior to application.
- If in doubt about surface suitability, test a 1 2 m² section for bond prior to commencing the work.
- All surfaces must be primed with LATICRETE Multi Prime and should be between 4°C and 32°C. Surfaces should be structurally sound, clean and free from all dirt, oil, grease, adhesives, paint, sealers or curing compounds.
- New concrete surfaces must be at least 28 days old
- Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate.
  Follow Australian Standards requirements for Expansion Joints in AS3958.1 Section 5.4.5 & AS3958.2 Section 4.5 or TCNA detail EJ-171 "Movement Joints – Vertical & Horizontal". Do not cover expansion joints with mortar.

#### **Installation on Cement Sheet over Framed Sub-Floors**

- Installer must verify that deflection under all live, dead and impact loads of interior cement sheet floors does not exceed industry standard of L/360 for ceramic tile and brick or L/480 for stone installations where L=span length.
- Minimum sub floor construction and underlayment thickness should be consistent with the requirements of table 3.1 of AS3958.1-2007 when installing tile. (Consult LATICRETE for further information).
- Prime cleaned and properly prepared cement sheet surface with LATICRETE Multi Prime as described in the Primer section.
- Mix the LATICRETE 86 LatiLevel™ with LATICRETE Latex in lieu of water.
- Install LATICRETE 86 LatiLevel when primer has dried but is still tacky.

#### **Installation over Cutback Adhesive**

Consult adhesive manufacturer and any government agencies for proper removal of any adhesives containing asbestos. Consult resilient floor covering association/ industry for recommended work & practices for removal of resilient floor coverings including adhesives. All cutback adhesives must be removed by thoroughly shot-blasting the floor prior to installation of LATICRETE 86 LatiLevel.

# Installation over Existing Ceramic Tile, Stone or Cement Terrazzo

- Skim coat existing, prepared ceramic tile, cement terrazzo or stone with LATICRETE 335 Premium Flexible Adhesive. (3 mm thick continuous coating). Allow to dry.
- Prime surface according to Priming section and install according to Application section.

### **Priming**

Use LATICRETE Multi Prime with every application. Shake thoroughly before using. Pour, mop or spray primer onto the surface. Apply an even thickness of primer to the prepared substrate using a bristle broom to ensure the primer is absorbed into the substrate, removing any puddles or thick areas. Use undiluted from the container and 5 litres of primer will cover approximately 40 m² depending on surface porosity. If primer dries rapidly, and slab is excessively porous it may require another application as directed above prior to applying underlayment. Allow the primer to dry till tacky before application of LATICRETE 86 LatiLevel.

Do not apply LATICRETE 86 LatiLevel over dried, non tacky primer. Re-coat and wait till tacky before application of LATICRETE 86 LatiLevel proceeds. Check condition of primer during the course of application.

**Note:** Keep primed surface clean. Do not allow foot traffic onto surface.

## Mixing

Place 4.4 litres of clean potable water into a clean pail. Add 20 kg bag of LATICRETE 86 LatiLevel slowly into the pail; mix as the material is poured. Use a high speed mixer (500 rpm) and mix thoroughly for one minute for a smooth, creamy mix with no clumps. Follow all mixing instructions on bag. Be sure to not add too much water. Mix no more than two bags at a time with appropriate water. For applications that require a latex in lieu of water use LATICRETE 3701 Mortar Admix, LATICRETE Latabond or the LATICRETE Multi Prime as the gauging liquid in place of water.

## **Application**

Building elements should generally be isolated from self leveling underlayment pours. Consider the thickness of the application and determine the requirement for perimeter isolation strips with any application but especially with under floor heating cables.

All smooth toweled and dense concrete surfaces are to be shot blasted, mechanically abraded to provide adequate key. Also ensure any contaminants, such as sealers or glue, are removed by shot blasting or other mechanical methods. Pour or pump the LATICRETE® 86 LatiLevel™ over the primed substrate and spread with a spike roller or gauging rake, taking care around under floor heating cables. Use a smoothing paddle to combine pours and to obtain a flat smooth surface. Floor will be ready for foot traffic in 4 hours. When LATICRETE 86 LatiLevel has hardened, ceramic tile may then be installed using a LATICRETE Latex Thin-Set Mortar, Follow manufacturer's recommendations for installing vinyl tile, linoleum, carpet, wood parquet or seamless epoxy flooring over concrete. Before installing wood or resilient flooring, consult manufacturer for recommendations on substrate moisture content requirements. Allow LATICRETE 86 LatiLevel to dry in accordance with those recommendations.

## Cleaning

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

#### 6. AVAILABILITY AND COST

# **Availability**

LATICRETE and LATAPOXY® materials are available worldwide.

#### For Distributor information:

Toll Free: 1800 331 012 Telephone: 07 3865 1599

For online Distributor information, visit LATICRETE at

www.laticrete.com.au

## Cost

Contact a LATICRETE Distributor in your area.

## 7. MAINTENANCE

LATICRETE and LATAPOXY grouts require routine cleaning with a neutral pH soap and water. All other LATICRETE and LATAPOXY materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

#### 8. TECHNICAL SERVICES

### **Technical assistance**

Information is available by calling

Toll Free: 1800 331 012 Telephone: 07 3865 1599 Fax: 07 3865 2250

## Technical and safety literature

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

#### Disclaimer

- The information contained in this document is given in good faith and to the best of our knowledge is true and accurate.
- This information is subject to change without notice and it is the responsibility of the user to obtain up to date and current information.
- The use of this product is beyond our control and liability is restricted to replacement of product proven faulty.
- The manufacturer is not responsible for any loss or damage arising from incorrect usage of this product.
- Efflorescence is a normal condition of Portland cement and is not covered by any warranty. The use of LATAPOXY 310 Stone Adhesive, LATAPOXY 300 Adhesive, LATICRETE SpectraLOCK® PRO Grout, LATAPOXY SP-100 and LATICRETE SpectraLOCK 2000 IG will not contribute to any noticeable efflorescence.

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