



# 86 LatiLevel™

DS-238-aus-0409



## 1. PRODUCT NAME

LATICRETE® 86 LatiLevel

## 2. MANUFACTURER

LATICRETE Pty Ltd  
29 Telford Street,  
Virginia. QLD. 4014  
Telephone: 07 38651599  
Toll Free: 1800331012  
Fax: 07 38652250  
Email: [latocreteoz@laticrete.com.au](mailto:latocreteoz@laticrete.com.au)  
Internet: [www.laticrete.com.au](http://www.laticrete.com.au)

## 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 and exterior sub-floors. Can be poured from feather edge to 15mm 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 15mm 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\*<sup>^</sup>
- Ceramic tile and stone\*\*
- Cement mortar beds
- Cement terrazzo\*\*
- Over under tile heating cables/mats<sup>^</sup>

\*Consult cement backer board manufacturer for specific installation recommendations

<sup>^</sup> 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

LATICRETE 86 LatiLevel  
20 kg bags, 56 bags to the pallet

### Colour

Grey

### Primer

LATICRETE Multiprime  
20 and 5 litre pails.

### Approximate Coverage

Per 20 kg bag.

| Nominal Thickness | Approximate coverage |
|-------------------|----------------------|
| 3mm               | 4m <sup>2</sup>      |
| 6mm               | 2m <sup>2</sup>      |
| 12mm              | 1m <sup>2</sup>      |
| 18mm              | 0.66m <sup>2</sup>   |
| 25mm              | 0.48m <sup>2</sup>   |
| 40mm              | 0.3m <sup>2</sup>    |

### 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 @ 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<sup>®</sup> 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                       | 20MPa  |
| 7 day                       | 25MPa  |
| 28 day                      | 30MPa  |
| Flexural Strength in 7 days | 5MPa   |

### VOC Content

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

### Working Properties @ 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 – 2m<sup>2</sup> section for bond prior to commencing the work.
- All surfaces must be primed with LATICRETE Multiprime 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 AS3958.1 – 2007, ANSI A108.01-3.7 “requirements for movement joint: preparations by other trades” 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 subfloor 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 Multiprime 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 Premium 335 Cementitious Adhesive. (3mm thick continuous coating). Allow to dry.

- Prime surface according to Priming section and install according to Application section.

### **Priming**

Use LATICRETE Multiprime 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 40m<sup>2</sup> 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. Recoat 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 20kg bag of LATICRETE 86 LatiLevel slowly into the pail; mix as the material is poured. Use a high speed mixer (500rpm) 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 Latex Admix, LATICRETE Latabond or the LATICRETE Multiprime 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 troweled 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: 1800331012  
Melbourne Telephone: 03 99336111  
Brisbane Telephone: 07 38651599

## **7. WARRANTY**

LATICRETE warrants that LATICRETE® 86 LatiLevel is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of ten (10) year from date of purchase subject to the terms and conditions stated in Data Sheet 230.10Paus LATICRETE Product Warranty. In addition, when used as a component of a LATICRETE System Installation, LATICRETE 86 LatiLevel is warranted for a period of ten (10) years from the date of purchase subject to the terms and conditions stated in Data Sheet 230.10Saus LATICRETE System Warranty.

### **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, 300, GP100, SpectraLock, SP100 and 2000 will not contribute to any noticeable efflorescence.

## **8. 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.

## **9. TECHNICAL SERVICES**

### **Technical assistance**

Information is available by calling:

Toll Free: 1800331012  
Telephone: 03 99336111  
FAX: 03 99336199