



Globally Proven
Construction Solutions

86 Latilevel™

LATICRETE® 86 LatiLevel™ is a cementitious powder that is mixed with water to produce a free-flowing self-leveling underlayment mortar for rapid leveling of interior sub-floors. Can be poured from feather edge to 38 mm thickness 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.



FEATURES/BENEFITS

- From feather edge to 38 mm thickness in one pour
- Economical and easy to use
- Fast setting
- Long heal times for extended workability
- Water resistant, non-shrinking
- Compatible with most adhesives
- Pumpable, free-flowing; eliminates sanding and troweling
- Meets ANSI A118.3, EN 13888 and ISO13007 with RG Classification

MANUFACTURER

LATICRETE Middle East LLC.
P.O. Box. 86028, Ras Al Khaimah
United Arab Emirates
Telephone: + 971 7 244 6396
Fax: + 971 7 244 5915
Internet: www.laticrete.me

USES

For leveling uneven concrete or exterior glue plywood floors; smoothing rough, spalled concrete and finishing rough screed concrete slabs. Ideal for new construction and remodel projects, in both residential and commercial applications.

PCKAGING / COLOR

86 LATILEVEL
▪ 50 kg bag; 27 bags per pallet

Colors: Grey

Primer: LATICRETE Admix & Primer: 20ℓ Pail, 36 per pallet.

Suitable Substrates (For interior use only)

- Concrete
- Cement backer board*
- Exterior glue plywood**
- Ceramic tile and stone**
- Cement mortar beds
- Cement terrazzo**

Consult cement backer board manufacturer for specific installation recommendations.

** See 5. Installation—Surface Preparation

Recommended Coverings

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

Approximate Coverage:**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 and 50% relative humidity.

Approximate Coverage - Per 50 kg bag

Thickness	Approximate Coverage
3 mm	9.6 m ²
6 mm	4.8 m ²
12 mm	2.4 m ²
18 mm	1.6 m ²
25 mm	1.2 m ²
37 mm	0.9 m ²

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

Limitations

- For interior use only.
- 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.
- Not a wearing surface must be covered with flooring.
- Do not apply LATICRETE LATILEVEL Underlayment over waterproofing or crack isolation membranes.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproof membranes. When a waterproofing membrane is required, use a LATICRETE Waterproofing Membrane

(see Section 10 FILING SYSTEMS).

- Do not bond directly to luan, OSB, particleboard or Masonite® surfaces.
- Not for use in submerged applications.

Cautions

- Consult MSDS for more safety information.
- During cold weather, protect finished work from traffic until fully cured.
- 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. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children.
- Contains 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. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children.

TECHNICAL DATA**Applicable Standards:**

Meets ANSI A118.7,
EN 13888 and ISO13007 with RG Classification

Physical Properties

Test ASTM 109	Results
Compressive Strength	
4 hours	10.3–15.8 MPa
1 day	19.3–22.1 MPa
28 day	29.7–31.7 MPa
Tensile Strength	3.4–4.1 MPa ANSI 118.7 3.6
Flexural Strength	6.9–8.3 MPa ANSI 118.7 3.7

Working Properties at 21°C

Working Time	30 minutes
Flow Time	15 minutes 21°C
Time to Foot Traffic	3 - 4 hrs

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**

Installation Over Concrete Slabs

- ALL CONCRETE SURFACES MUST BE SHOT BLASTED/MECHANICALLY ABRADED.

- All surfaces must be primed with LATICRETE® Admix and Primer 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 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.

Installation Over Wooden Sub-Floors

- Installer must verify that deflection under all live, dead and impact loads of interior plywood floors does not exceed industry standards of L/360 for ceramic tile and brick or L/480 for stone installations where L=span length.
- Minimum construction for interior plywood floors:
- SUBFLOOR: 15 mm thick exterior glue plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joists spaced 400 mm o.c. maximum; fasten plywood 150 mm o.c. along sheet ends and 200 mm o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 3 mm between sheets and 6 mm between sheet edges; all sheet ends must be supported by a framing member; glue sheets to joists with construction adhesive.
- UNDERLAYMENT: 15 mm thick exterior glue plywood fastened 150 mm o.c. along sheet ends and 200 mm o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 3 mm to 6 mm between sheets and 6 mm between sheet edges and any abutting surfaces; offset underlayment joints from joints in subfloor and stagger joints between sheet ends; glue underlayment to subfloor with construction adhesive. Refer to Technical Data Sheet 152 “Bonding Ceramic Tile, Stone or Brick Over Wood Floors” for complete details.
- Prime cleaned and properly prepared surface with LATICRETE Admix and Primer as described in “Priming” section.
- Allow primer to dry accordingly. Install 3.2# galvanized diamond metal lath over entire wood floor. Ensure proper fastening to eliminate any loose sections. Do not install over wet primer.

Note: Galvanized diamond metal lath can be omitted when installing LATICRETE® 86 LatiLevel™ over LATICRETE Floor HEAT. Install LATICRETE 86 LatiLevel over floor in accordance with “Application” section below.

Installation Over Cutback Adhesive

- Consult adhesive manufacturer and any governmental agencies for proper removal of any adhesive containing asbestos. Consult the Resilient Floor Covering Institute “Recommended work & practices for removal of resilient

floor covering” for removal instructions. All cutback adhesive 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 ceramic tile, cement terrazzo or stone with LATICRETE 254 Platinum Rapid (min. 3 mm thick continuous coating). Allow to dry.
- Prime surface according to “Priming” section and install LATICRETE 86 LatiLevel™ according to “Application” section.

Priming

Use LATICRETE Admix & Primer 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. Per 4.8 L jug of primer, dilute 1:1 with clean potable water in a clean mixing pail.

Coverage is approximately: 45 m² when mixed 1:1. If primer dries within 45 minutes, slab is excessively dry and will require another application as directed above. Allow the primer to dry to a clear film usually 1–3 hours, but less than 24 hours before application of LATICRETE 86 LatiLevel.

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

Mixing

Place 11.5 L of clean potable water into a clean pail. Add one 50 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.

Application

Perimeter Isolation Strip

It is essential that all walls and building elements are isolated from the self-leveling underlayment pours to ensure proper expansion allowance against all restraining surfaces.

Note: It is recommended to install a perimeter isolation strip before the installation of LATICRETE 86 LatiLevel. Attach the perimeter isolation strip to the perimeter wall of the entire subfloor, as well as around the perimeter of any protrusions, in order to isolate the floor and wall/restraining surfaces. Temporarily fasten perimeter isolation strip in place with staples masking, duct, or carpet tape. The perimeter isolation strip can then be removed after the tiles have set firm. The joints can then be filled with LATICRETE Latasil™.

All concrete surfaces are to be shot blasted/mechanically abraded to ensure any contaminants, such as sealers or glue, are removed. Pour or pump the LATICRETE 86 LatiLevel over the primed substrate and spread with a spike roller or gauging rake. 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.

AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY® materials are available worldwide. For Distributor information, call: LATICRETE ME details

WARRANTY

See 10. FILING SYSTEM

DS 230.13: LATICRETE Product Warranty

A component of:

DS 230.05: LATICRETE 5-Year System Warranty (MEA)

DS 230.10: LATICRETE 10 Year System Warranty (MEA)

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

TECHNICAL SERVICES

Information is available by calling the LATICRETE Technical Service

Telephone: + 971 7 244 6396

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at

www.laticrete.me / www.laticrete.com

Cost

Contact a LATICRETE / LATAPOXY Distributor in your area.
