



84 LatiLevel™

DS-084.0-0311



1. PRODUCT NAME

LATICRETE® 84 LatiLevel™

2. MANUFACTURER

LATICRETE International, Inc.
1 LATICRETE Park North
Bethany, CT 06524-3423 USA

Telephone: +1.203.393.0010, ext. 235
Toll Free: 1.800.243.4788, ext. 235
Fax: +1.203.393.1684
Internet: www.laticrete.com

3. PRODUCT DESCRIPTION

LATICRETE 84 LatiLevel is a cementitious powder that is mixed with water to produce a free-flowing self-leveling underlayment mortar for leveling of interior sub-floors. Can be poured from feather edge to 1" (25 mm) thickness in one pour, LATICRETE 84 LatiLevel will produce a smooth and flat surface with excellent durability, which is ready for foot traffic in 16 hours.

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.

Advantages

- From feather edge to 1" (25 mm) thickness in one pour
- Economical and easy to use
- Long heal times for extended workability
- Water resistant, non-shrinking
- Pumpable, free-flowing; eliminates sanding and troweling
- Compatible with most adhesives
- Comforms to EN13813 with a CT-C25-F7-B10 Classification

Suitable Substrates

For interior use only

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

- Cement mortar bed

* 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

Packaging

LATICRETE 84 LatiLevel 50 lb bag (22.7 kg); 56 bags per pallet

Primer

LATICRETE Admix & Primer:

5 qts (4.7 l) jug, 4 jugs per carton, 28 cartons per pallet

Approximate Coverage:

Per 50 lb (22.7 kg) bag

Nominal Thickness	Approximate Coverage
1/8" (3 mm)	45 ft ² (4.2 m ²)
1/4" (6 mm)	22.5 ft ² (2.1 m ²)
1/2" (12 mm)	11.3 ft ² (1.1 m ²)
3/4" (18 mm)	7.5 ft ² (0.7 m ²)
1" (25 mm)	5.6 ft ² (0.5 m ²)

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 65–80°F (18–26°C) 50% relative humidity.

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

Limitations

- For interior use only.
- Do not install when surface temperature is below 50°F (10°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.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use a LATICRETE Waterproofing Membrane (see Section 10 FILING SYSTEMS).
- Do not bond directly to luan, OSB, particle board or Masonite® surfaces.
- When using waterproofing or anti-fracture membrane, it should be installed over self-leveling underlayment.

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. 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

Applicable Standards

ANSI 118.7; EN12813

Performance Properties

Test	Results
ASTM C 109 28 day Compressive Strength	3700–4200 psi (25.5–29.0 MPa)
ANSI A118.7 Tensile Strength	300–350 psi (2.07–2.41 MPa) ANSI 118
ANSI A118.7 Flexural Strength	850–950 psi (5.9–6.6 MPa) ANSI 118
EN 13813 Flexural Strength	900 psi (6.25 MPa)
EN 13813 Compressive Strength	2900 psi (20 MPa)

Working Properties—70°F (21°C)

Working Time	30 minutes
Flow Time	10 minutes @ 70°F (21°C)
Time to Foot Traffic	16 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

- ALL CONCRETE SURFACES MUST BE SHOT BLASTED/MECHANICALLY ABRADED.
- All surfaces must be primed with LATICRETE® Admix and Primer and should be between 50°F (10°C) and 90°F (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.
- When using LATICRETE Floor Heat in conjunction with LATICRETE 84 LatiLevel over wood floors; first install LATICRETE 84 LatiLevel following the instructions in DS 084.0 and DS 002.4 allowing it to fully cure prior to installing LATICRETE Floor Heat according to the instructions in DS 605.0
- Minimum construction for interior plywood floors:
SUBFLOOR: 5/8" (15 mm) thick exterior glue plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joists spaced 16" (400 mm) o.c. maximum; fasten

plywood 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) between sheets and 1/4" (6 mm) between sheets edges; all sheet ends must be supported by a framing member; glue sheets to joists with construction adhesive.

UNDERLAYMENT: 5/8" (15 mm) thick exterior glue plywood fastened 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) to 1/4" (6 mm) between sheets and 1/4" (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
- Install LATICRETE 84 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 84 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. 1/8" [3 mm] thick continuous coating). Allow to dry.
- Prime surface according to “Priming” section and install LATICRETE 84 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 5 qt. (4.8 l) jug of primer, dilute 1:1 with clean potable water in a clean mixing pail. Coverage is approximately 500 ft² (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 84 LatiLevel . **Note:** Keep primed surface clean. Do not allow any foot traffic onto surface.

Mixing

Place 4.5–4.75 qts (4.25–4.5 l) of clean potable water into a clean pail. Add one 50 lb (22.7 kg) bag of LATICRETE 84 LatiLevel slowly into the pail; mix as the material is poured. Use a high speed mixer (300 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® 84 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 the 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 84 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 16 hours. When LATICRETE 84 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 84 LatiLevel to dry in accordance with those recommendations. For applications requiring pours between 1" and 1 1/2" (25–38 mm), use LATICRETE 86 LatiLevel.

Cleaning

Clean tools with water while mortar is fresh.

6. AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY® materials are available worldwide.

For Distributor information, call:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

For on-line distributor information, visit LATICRETE at

www.laticrete.com.

Cost

Contact a LATICRETE/LATAPOXY Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM:

DS 230.13: LATICRETE Product Warranty

A component of:

DS 230.05: LATICRETE 5 Year System Warranty

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 the LATICRETE Technical Service

Hotline: (hours 8:00 AM to 5:30 PM EST):

Toll Free: 1.800.243.4788, ext. 235

Telephone: +1.203.393.0010, ext. 235

Fax: +1.203.393.1948

Technical and safety literature

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

www.laticrete.com.

10. FILING SYSTEM

Additional product information is available on our website at www.laticrete.com. The following is a list of related documents:

DS 230.13:	LATICRETE Product Warranty
DS 230.05:	LATICRETE 5 Year System Warranty
DS 236.0:	LATICRETE 9235 Waterproofing Membrane
DS 662.0:	LATICRETE Admix & Primer
DS 729.0:	LATICRETE 254 Platinum Rapid
TDS 152:	Bonding Ceramic Tile, Stone or Brick over Wood Floors
DS 238.9:	LATICRETE 86 LatiLevel
DS 663.0:	LATICRETE Hydro Ban™
DS 6200.1:	LATICRETE Latasil

LATICRETE International, Inc.

One LATICRETE Park North, Bethany, CT 06524-3423 USA • 1.800.243.4788 • +1.203.393.0010 • www.laticrete.com

©2011 LATICRETE International, Inc.

LATICRETE, LATAPOXY, SPECTRALOCK and the  logo are Registered Trademarks of LATICRETE International, Inc.

DS-084.0-0311