



NXT® Level Flow

DS-36623-0425

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

NXT® Level Flow

2. MANUFACTURER

LATICRETE International, Inc.

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3. PRODUCT DESCRIPTION

NXT® Level Flow is a fire-rated, high-flowing cement-based self-leveling underlayment designed to level interior floor substrates and allow floor covering installations in just 24 hours. Pumpable or pourable, it can be applied from 1/8 inch (3 mm) to 2 inches (51 mm) in a single lift and is walkable in 3 to 4 hours. NXT Level Flow is a UL-certified solution for fire-rated construction, providing up to 2-hour fire resistance in floor-to-ceiling assemblies. With rapid curing, exceptional durability, and direct adhesive compatibility, it serves as a high-performance alternative to traditional gypsum underlayments.

Suitable for use over concrete, gypsum, exterior glue plywood, and other structurally sound substrates, it creates a smooth, level surface for the installation of hardwood, resilient flooring, cork, ceramic tile, natural stone, carpet, and more. This fire-rated floor underlayment offers the high-flow efficiency, speed, and fire-rated protection you need to achieve smooth, reliable, and code-compliant installations.

Uses

- Commercial, retail (malls & shops)
- Health care, hospitals
- Education (schools & universities)
- Residential
- Hotels

Advantages

- High flowing and easy-to-use
- Can be placed from 1/8" to 2" (3mm to 51mm) and tapered to zero at edges
- UL-certified fire resistant for up to 2 hours to meet building code requirements
- UL Certification - Type "LAT": Tested in accordance to ANSI/UL 263 (ASTM E119) & ASTM E84
- Pourable and pumpable
- Inorganic; will not contribute to mold/mildew growth
- Suitable surface for most finished floor goods after 24 hours
- Can be applied directly over concrete testing at RH of 100% or less per ASTM F2170
- Can be applied over Gypsum based substrates
- Can be applied over approved Sound Mats, 1" minimum pour depth*

Note: * See Substrate Preparation and Primer Guide for LATICRETE Self-Leveling Products, TDS-230

Suitable Substrates

- Cement Backer Board
- Cement Mortar Bed
- Cement Terrazzo
- Ceramic Tile and Stone
- Concrete
- Vinyl Tile
- Exterior Glue Plywood (Interior Only)
- Gypsum Underlayments

Packaging

50LB (22.7KG) BAG / 56 per pallet - Standard
Part #: 0903-0050-21

2500LB (1133.9 KG) BAG / 1 per pallet - Standard
Part #: 0903-2500-21

Approximate Coverage

Nominal Thickness	Approximate Coverage
1/8" (3 mm)	44.0 ft² (4.1 m²)
3/16" (5 mm)	29.3 ft ² (2.7 m ²)
1/4" (6 mm)	22.0 ft² (2.0 m²)
5/16" (8 mm)	17.6 ft ² (1.6 m ²)
3/8" (10 mm)	14.7 ft² (1.4 m²)
7/16" (11 mm)	12.6 ft ² (1.2 m ²)
1/2" (12 mm)	11.0 ft² (1.0 m²)
9/16" (14 mm)	9.8 ft ² (0.9 m ²)
5/8" (16 mm)	8.8 ft² (0.8 m²)
11/16" (17mm)	8.0 ft ² (0.7 m ²)
3/4" (19 mm)	7.3 ft² (0.6 m²)
13/16" (21mm)	6.8 ft ² (0.6 m ²)
7/8" (22 mm)	6.3 ft² (0.6 m²)
15/16" (24 mm)	5.9 ft ² (0.5 m ²)
1" (25 mm)	5.5 ft² (0.5 m²)
2" (51 mm)	2.7 ft² (0.3 m²)

Coverage will vary depending on the texture of the surface. A survey is also recommended.

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.

Limitations

- Do not install NXT Level Flow over particleboard, chipboard, hardboard (Masonite®), Luan panels, asbestos, gypsum-based patching materials, asphalt, coal tar, or lightweight insulating concrete, or any other dimensionally unstable materials.
- For interior use only.
- Do not install when surface temperature is below 40°(4°C) or above 90°F (32°C).
- Do not install over painted surfaces.
- Do not exceed recommended mixing ratio as indicated in mixing instructions. Over watering will weaken product properties.
- Never mix with cement or admixtures.
- Do not apply NXT Level Flow over waterproofing or crack isolation membranes.
- 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 on top of the dry NXT Level Flow.
- Not for use in submerged applications.

Cautions

- Read and understand the Product Data Sheet and Safety Data Sheet.

- Check www.laticrete.com for any technical bulletins or updated information about the product and its application
- Contact your local LATICRETE Technical Sales Representative with any questions.
- Consult SDS for more safety information.
- Protect finished work from traffic until fully cured.
- Contains portland cement and silica sand. Causes severe skin burns and eye damage. Wear protective gloves, clothing and eye protection. In case of contact, flush thoroughly with water.
- Silica sand may cause cancer, respiratory irritation or serious lung problems. Do not breathe dust. Wear a respirator in dusty areas.
- Keep out of reach of children.

4. TECHNICAL DATA

Applicable Standard

- ANSI A118.16
- This product currently has an Industry-Wide Environmental Product Declaration (EPD). The PCR review, life cycle assessment and declaration were independently verified by UL environment in accordance with ISO 14025, ISO 14040 and ISO 14044.
- ANSI/UL 263 (ASTM E119): This standard, titled "Fire Tests of Building Construction and Materials," is used to assess the fire-resistance ratings of building assemblies, including floor/ceiling assemblies incorporating underlayments like those from LATICRETE.
- ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials, (tested by NGC Testing Services)
 - Class A
 - FLAME SPREAD INDEX 0
 - SMOKE DEVELOPED INDEX 0

UL Floor/Ceiling Assembly Designs include:

L501, L502, L511, L512, L518, L525, L527, L528, L529, L530, L541, L570, L573, M509, M510

See productiq.ulprospector.com for design details.

Physical Properties

Test	Test Method
Pour Depth	1/8" to 2" (3mm to 51mm) Consult Technical Services for Depths Over 2". Can be tapered to zero at edges.
Walkable	3 to 4 hours at 70°F (21°C)
Tensile Bond Strength* ASTM C1583	200 - 275 psi (1.9 – 2.1 MPa)
Flexural Strength* ASTM C1708	700 - 900 psi (5.2 – 6.9 MPa)
Compressive Strength ASTM C1708	1 day = 2100 psi (14.7 MPa) 7 day = 3000 (24.1 MPa) 28 day = 4200 psi (28.9 MPa)
Set Time ASTM C1708	Initial @ 30 - 45min. Final @ 45 - 120min.
Installed Dry Weight (per square foot @ 1/4" (6mm))	2.5 lbs/ft²
Flammability ASTM E84-14	Flame Spread Index: 0 Smoke Developed Index: 0

- *28 day results
- All results are averages.
- Tested at 70°F and 50% RH

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

- Refer to TDS230 SUBSTRATE PREPARATION AND PRIMER GUIDE for LATICRETE SELF-LEVELING PRODUCTS for more detailed surface preparation instructions.

Priming

- Refer to TDS230 SUBSTRATE PREPARATION AND PRIMER GUIDE for LATICRETE SELF-LEVELING PRODUCTS for more detailed dilution, approximate coverage and application instructions. Use Primer Plus, Prime-N-Bond, VAPOR BAN Primer ER or General Epoxy Primer (with sand broadcast) only.

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

Mixing

NXT Level Flow should be mixed with 3.7 – 4.5 quarts (3.5 – 4.3 L) of water per 50 lb (22.7 kg) bag. Do not over water. For manual application, add product to water and mix for 2 – 3 min with a heavy duty drill (650 rpm) to obtain a lump free mix. NXT Level Flow can also be used in most pump equipment. Please consult with a LATICRETE representative to verify equipment compatibility.

A flow test should always be performed to ensure that the mix is homogeneous and free from separation. See TDS 235 – Self-Leveling Underlayment Flow Test for more detailed instructions on performing flow tests. The ideal flow range for NXT Level Flow is 10" to 12" when using a large flow ring or 5" to 6" using small flow ring.

Application

Substrate temperature must be between 40 – 90°F (4 – 32°C) during application and air temperature maintained between 50 – 90°F (10 – 32°C). Protect areas from direct sunlight. Do not use damp curing methods or curing and sealing compounds. If required to meet level tolerances, survey surface using a digital or electronic leveling device and apply level pegs as required.

Adequate ventilation should be provided to ensure uniform drying. Pump or pour blended material onto substrate at an average thickness ranging between 1/8" to 2" (3mm to 51mm). Can be tapered to zero at edges.

Note:

- Wood substrates need a minimum thickness of 1/2" (12 mm) and diamond lath. Immediately following placement lightly smooth the surface and pour lines. When not using elevation pins, the use of a gauge rake will assist in controlling material depth.
- Do not expose LATICRETE self-leveling underlayments to rolling dynamic loads, such as forklifts or scissor lifts, for at least 72 hours after installation at 70°F (21°C). Proper application is the responsibility of the user. Field visits by LATICRETE personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

Application tools offered by LATICRETE:

- 7316-LVPG-25 / LATICRETE Elevation Pins
- 7317-NIVC-HS / LATICRETE Electronic Survey Tool
- 7319-TOOL-CR / Self-Leveling Underlayment & Overlayment Tool Kit

Flooring Installation

(Bold References are Hyperlinks)

- Immediately before installation of flooring, as recommended by flooring and adhesive manufacturer and in accordance **ASTM F2873 - Installation of Self-Leveling Underlayment & Preparation of Surface to Receive Resilient Flooring**, the self-leveling surface may require preparation including cleaned of all loose material by scraping, sanding, vacuuming, and primer application or a combination thereof.
- Conduct surface review including porosity tests, surface temperature, bond testing (Mat Bond Test), and other surface evaluation as required by flooring and adhesive manufacturer and in accordance with the **National Floor Covering Association (NFCA) Floor Covering Reference Manual**. Also identify and report any concerns for delaminated or loose areas, surface profile and surface flatness to project manager / General Contractor for additional surface prep, correction, adjustment before starting installation of floor covering materials.
- Always test performance, suitability, and compatibility of finished floor systems prior to their application. Conduct bond testing in accordance with flooring and adhesive manufacturer and **ASTM F3311 - Mat Bond Evaluation of Performance and Compatibility for Resilient Flooring**.
- In good drying conditions (ambient air temperature 65 – 75°F (18 - 24°C) / 40 – 60% RH) finished floor covering may be installed as soon as 24 hours after installation of NXT Level Flow.
- Non-moisture sensitive tile and stone can be applied once self-leveling underlayment is walkable, approximately 3 to 4 hours.
- Lower temperatures, higher RH, poor ventilation, and thicker self-leveling application will extend self-leveler dry time.
- NXT self-leveling products are not a vapor barrier and will allow passage of moisture vapor. Prior to installing NXT self-leveling products, the concrete must be tested for moisture conditions. If the concrete moisture conditions exceed the floor covering manufacturer's requirements for the finished flooring a moisture mitigation epoxy must be applied before installing NXT self-leveling. Use VAPOR BAN E, VAPOR BAN ER or VAPOR BAN Primer ER prior installing NXT self-leveling products.

- Steel-wheeled traffic is not recommended as it can cause damage to the surface. Important when installing floor finishes such as VCT, LVT or sheet vinyl. Which require extremely flat surfaces.

6. AVAILABILITY AND COST

Availability

LATICRETE 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 laticrete.com

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM:

- 1 Year Product Warranty (US) (English)
- 5 Year System Warranty (US) (English)
- Concrete Remediation 5 Year System Warranty (US) (English)
- Concrete Remediation 5 Year System Warranty (Canada) (English)
- Concrete Remediation 5 Year System Warranty (Estados Unidos) (Español)

8. MAINTENANCE

Non-finish LATICRETE and LATAPOXY installation 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:

Toll Free: 1.800.243.4788, ext. 1235

Telephone: +1.203.393.0010, ext. 1235

Fax: +1.203.393.1948

Technical and Safety Literature

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

10. FILING SYSTEM

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

- DS 230.13: LATICRETE Product Warranty
- DS 230.05: LATICRETE 5 Year System / Warranty (United States and Canada)
- DS-65437 : Primer Plus
- TDS 230: SUBSTRATE PREPARATION AND PRIMER GUIDE for LATICRETE SELF-LEVELING PRODUCTS

- TDS 235N: NXT Self-Leveling Underlayment Flow Test
- DS-622.6-0822 General Primer
- DS-36647 VAPOR BAN E
- DS-35216 VAPOR BAN ER
- DS-35222 VAPOR BAN PRIMER ER
- DS-307 PRIME N BOND

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