



NXT[®] LEVEL PLUS

DS-505-0221

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

NXT[®] LEVEL PLUS

2. MANUFACTURER

LATICRETE International, Inc.

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3. PRODUCT DESCRIPTION

NXT Level Plus is a high quality, cement-based, fiber reinforced, free-flowing underlayment for use in leveling interior Plywood/OSB, Gypsum and Concrete substrates. Rapid setting formula produces a flat, smooth and hard surface for the installation of finished flooring after 12 hours.

Equipped with Microban Anti-Microbial Protection

Uses

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

Advantages

- Finish floor goods can be applied quickly, as soon as 12 hours after
- Can be applied over Plywood and OSB without the use of a metal lath

- Can be applied from 1/8" to 1-1/4" and tapered to zero at edges - concrete substrates
- Can be applied from 1/2" to 1-1/4" and tapered down to 1/4" - wood substrates
- Can be applied over Gypsum based substrates
- Fiber reinforced
- High compressive strengths
- Easy to use, free-flowing;
- Inorganic; will not contribute to mold/mildew growth
- Suitable surface for most finished floor goods
- Can be applied directly over concrete testing at RH of 100% or less per ASTM F2170
- Long heal times for extended workability
- Low-shrinkage
- Pumpable
- Compatible with most adhesives
- Direct replacement for DRYTEK LEVELEX PLUS

Suitable Substrates

- Cement Backer Board
- Cement Mortar Bed
- Cement Terrazzo
- Ceramic Tile and Stone
- Concrete
- STRATA_HEAT Mat
- STRATA_MAT
- Vinyl Tile
- Exterior Glue Plywood (Interior Only)
- Oriented Strand Board (OSB) (Interior Only)
- Gypsum Underlayments (Interior Only)

Packaging

55LB (22.7KG) BAG / 56 per pallet - Standard

Part #: 0902-0055-21

Approximate Coverage

Nominal Thickness	Approximate Coverage
1/8" (3 mm)	49 ft ² (4.6 m ²)
1/4" (6 mm)	24 ft ² (2.3 m ²)
1/2" (12 mm)	12 ft ² (1.1 m ²)
3/4" (18 mm)	8.1 ft ² (0.8 m ²)
1" (25 mm)	6.1 ft ² (0.6 m ²)
1-1/4" (32 mm)	4.9 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. High humidity will reduce the shelf life of bagged product.

Limitations

- Do not install NXT Level Plus over particleboard, chip board, hardboard (Masonite®), Luan panels, asbestos, asphalt, coal tar, or lightweight insulating concrete or any other dimensionally unstable materials.
- NXT Level Plus is not recommended for steel-wheeled traffic.
- For interior use only.
- Do not install when surface temperature is below 40°F (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 Plus 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 Plus.
- Not for use in submerged applications.
- Not for use as a wear surface.
- Crack Isolation properties are not applicable when using NXT Level Plus over STRATA_MAT or STRATA_HEAT Mat.
- Maximum allowable deflection for cement self-leveling underlayment over wood floors is L/360 per ASTM F2873.
- Cracks are common and expected with unstable substrates (I.E. - Plywood/OSB). Cracks are not considered a product defect. LATICRETE cannot predict if or to what extent cracking will occur.
- NXT Level Plus can be installed at 1/2" and tapered to 1/4" over Plywood/OSB. Thicker applications may be required if Stone/Tile is being installed.

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 serious skin and eye damage. Wear protective gloves/protective clothing. In case of contact, flush thoroughly with water.

- Do not take internally. 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



Physical Properties

Test	Test Method
Pour Depth	1/8" to 1-1/4" (3 – 32 mm) Consult Technical Services for Depths Over 1-1/4". Can be tapered to zero at edges.
Walkable	2 - 3 hours at 70°F (21°C)
Tensile Bond Strength ASTM C-1583	270 - 390 psi (1.9 – 2.1 MPa)
Flexural Strength ASTM C-1708	840 - 1100 psi (5.2 – 6.9 MPa)
Compressive Strength ASTM C-1708	1 day = 2500 psi (20.7 MPa) 7 day = 3500 (24.1 MPa) 28 day = 5300 psi (36.5 MPa)
Set Time ASTM C-1708	Initial @ 20 - 30min. Final @ 35 - 40min.

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.

- NXT Level Plus does not need lath when applied over Plywood/OSB substrates.

Application over Wood Substrates:

Verify that the wood substrate is APA-rated Type 1, exterior exposure plywood or an OSB equivalent. Must be stable and structurally sound enough to support total anticipated live, dead and impact loads. Maximum allowable deflection for cement self-leveling underlayment over wood floors is L/360 per ASTM F2873.

- ceramic tile is L/360.
- natural stone is L/480.

Some floor covering products will need a more stringent deflection. Consult with floor covering manufacturer for their requirements.

Wood substrate must be clean and free of any contaminants. Substrate can be sanded, if necessary, then swept, vacuumed, and properly primed.

Priming

- See TDS230 SUBSTRATE PREPARATION AND PRIMER GUIDE for LATICRETE SELF-LEVELING PRODUCTS for more detailed dilution, approximate coverage and application instructions. This is for NXT Primer, Prime-N-Bond, VAPOR BAN Primer ER and NXT Epoxy Primer.
- Primer is not required when using NXT Level Plus over STRATA_MAT or STRATA_HEAT Mat.

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

Mixing

NXT Level Plus should be mixed with 5.0 – 5.5 quarts (4.7 – 5.2 L) of water per 55 lb (25 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 Plus 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. The ideal flow range for NXT Level Plus is 10" to 12" (or 127mm to 152 mm) using the LATICRETE® Flow Test Kit. See TDS 235N – NXT Self-Leveling Underlayment Flow Test - for more detailed instructions on performing flow tests.

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, curing compounds or sealers. 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:

- Wood substrates: 1/2" (12mm) to 1-1/4" (32mm) and tapered down to 1/4" (6mm)
- Concrete substrates: 1/8" (3mm) to 1-1/4" (32mm) and tapered to zero at edges
- Minimum 1/2" (12mm) to 1-1/4" (32mm) pour thickness over top of STRATA_MAT or STRATA_HEAT Mat when NXT Level Plus is used.

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 NXT® 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

Always refer to finished floor manufacturer's recommendations regarding installation instructions, surface prep, moisture conditions and compatibility. Always test performance suitability and compatibility of finished floor systems prior to their application. Sample surfaces should be installed as a field test so as to be representative of entire surface and tested for intended use.

In good drying conditions (ambient air temperature 65 – 75°F (18 - 24°C) / 40 – 60% RH) finished floor covering may be installed 12 hours after installation of NXT Level Plus. Non-moisture sensitive tile and stone can be applied once self-leveling underlayment is walkable, approximately 2 - 3 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 NXT Vapor Reduction Coating or Vapor Ban Primer ER prior installing NXT self-leveling products.

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.

- TDS 230: SUBSTRATE PREPARATION AND PRIMER GUIDE for LATICRETE SELF-LEVELING PRODUCTS
- TDS 235N: NXT Self-Leveling Underlayment Flow Test
- DS 507.0: NXT Vapor Reduction Coating

7. WARRANTY

See 10. FILING SYSTEM:

- DS 025.0: 25 Year System Warranty
- DS 230.05: 5 Year System Warranty
- DS 230.10: 10 Year System Warranty
- DS 230.13: 1 Year Product Warranty
- DS 230.99: LATICRETE Lifetime System Warranty (United States and Canada)

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 025.0: LATICRETE 25 Year System Warranty (United States and Canada)
- DS 230.99: LATICRETE Lifetime System Warranty (United States and Canada)
- DS 236.0: 9235 Waterproofing Membrane
- DS 504.0: NXT Level
- DS 502.0: NXT Primer
- DS 663.0: HYDRO BAN

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