



NXT[®] LEVEL

DS-504-0822

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

NXT[®] LEVEL

2. MANUFACTURER

LATICRETE International, Inc.

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3. PRODUCT DESCRIPTION

NXT Level is a cement-based underlayment for use in leveling interior substrates. NXT Level produces a flat, smooth and hard surface for the installation of finished flooring. NXT Level can be placed from a 1/8" – 3" (3 – 76 mm) in a single lift.

Uses

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

Advantages

- Pourable and pumpable
- High strength
- Deep application depth, no need for multiple placements
- Can be installed from a 1/8" to 3" and tapered to zero at edges
- Can be applied over Gypsum based substrates
- 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
- Direct replacement for DRYTEK LEVELLEX

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: 0900-0050-21

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)
3" (76mm)	1.9 ft² (0.2 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 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.
- NXT Level 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 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.
- 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



Physical Properties

Test	Test Method
Pour Depth	1/8" to 3" (3 – 76 mm) Consult Technical Services for Depths Over 3". Can be tapered to zero at edges.
Walkable	2 to 3 hours at 70°F (21°C)
Tensile Bond Strength	275 - 305 psi (1.9 – 2.1 MPa)
ASTM C-1583	
Flexural Strength	750 - 1000 psi (5.2 – 6.9 MPa)
ASTM C-1708	
Compressive Strength	1 day = 2700 psi (18.6 MPa) 7 day = 4200 (28.9 MPa) 28 day = 5000 psi (34.5 MPa)
ASTM C-1708	
Set Time	Initial @ 20 - 30 min. Final @ 35 - 40 min.
ASTM C-1708	
Installed Dry Weight (per square foot @ 1/4" (6mm))	2.7 lbs/ft ²
Flammability	Flame Spread Index: 0
ASTM E84-14	Smoke Developed Index: 0

- All results are averages.

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 NXT Primer, Prime-N-Bond, VAPOR BAN Primer ER or General Primer (with sand broadcast) only.

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

Mixing

NXT Level should be mixed with 4.0 – 4.5 quarts (3.8 – 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 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 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 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" – 3" (3 – 76 mm). Material 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 F2783 - 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 24 hours after installation of NXT Level.
- Non-moisture sensitive tile and stone can be applied once self-leveling underlayment is walkable, approximately 2 to 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 VAPOR BAN E, VAPOR BAN ER 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.

7. WARRANTY

See 10. FILING SYSTEM:

- DS 230.05: 5 Year System Warranty (US - English)
- DS 230.10: 10 Year System Warranty (US - English)
- DS 230.13: 1 Year Product Warranty (US - English)
- DS23010CR: Concrete Remediation_10 Year System Warranty (United States)
- DS23010CN CR: Concrete Remediation 10 Year System Warranty (Canada - English)
- DS230 10F CR: Concrete Remediation 10 Year System Warranty (Canada - Français)
- DS230 10SP CR: Concrete Remediation 10 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 230.05: LATICRETE 5 Year System / Warranty (United States and Canada)
- DS 230.10: LATICRETE 10 Year System / Warranty (United States and Canada)
- TDS 230: SUBSTRATE PREPARATION AND PRIMER GUIDE for LATICRETE SELF-LEVELING PRODUCTS
- TDS 235N: NXT Self-Leveling Underlayment Flow Test
- DS 502.0: NXT® Primer
- DS-622.6-0822 General Primer
- DS-36647 VAPOR BAN E
- DS-35216 VAPOR BAN ER
- DS-35222 VAPOR BAN PRIMER ER

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