



NXT[®] LEVEL SP

DS-35609-1120

**Globally Proven
Construction Solutions**

1. PRODUCT NAME

NXT[®] LEVEL SP

2. MANUFACTURER

LATICRETE International, Inc.

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3. PRODUCT DESCRIPTION

NXT Level SP is a medium/coarse-sanded, pumpable and pourable, low alkali cement-based, premium self-leveling topping suitable as a high-strength wear surface or underlayment. The product is based on a proprietary mineral binder system that is used to finish interior concrete and level uneven floor surfaces. Apply it over concrete and other types of sound substrates before polishing, installing coatings or other flooring systems. Most floor covering adhesives that are suitable for concrete can be used on LATICRETE NXT Level SP.

Uses

- New construction
- Repairs to polished slabs
- Used in: malls, department stores, super markets, hotels, apartment buildings, dealerships and much more

Advantages

- Provides a durable, attractive and low maintenance cementitious wear-surface grade concrete overlay, suitable for polishing and/or installing floor coatings.
- Transforms rough concrete to a flat and smooth surface perfect for a polished concrete look.
- Surface can be tinted using LATICRETE[®] L&M[™] VIVID DYE[™] System to coordinate with interior finishes or color-scape branding designs.
- Surface is walkable in 2 – 4 hours and may be open to wheel traffic within 24 hours at 70°F (21°C).
- Polishable to a finished wear-surface in as little as 24 hours.
- Pourable and pumpable - available in 50 lb. bags.

- Ultimate compressive strength (over 7,000 PSI), medium-coarse aggregate* for greater rolling and standing load capacity, increased durability and longer lasting appearance.
- Inorganic-based formulation will not contribute to or harbor growth of mold or mildew.

Suitable Substrates

- Concrete Slabs

Packaging

- 50LB (22.7KG) BAG / 56 per pallet /
- Part number is 9600-0050-21

Approximate Coverage

| Size | 1/4" 6mm | 1/2" 12mm | 3/4" 18mm | 1" 25mm | 2" 51mm |
|------------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Per 50 lb bag | 20 sq.ft | 10 sq.ft | 5.8 sq.ft | 4.7 sq.ft | 2.3 sq.ft |
| 22.7KG | 1.85 m ² | .93 m ² | .54 m ² | .44 m ² | .21 m ² |

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

Limitations

- Do not install over Particle board, chipboard, hardboard (Masonite[®]), Luan panels, asbestos, gypsum-based patching materials, asphalt, coal tar, lightweight insulating concrete or any other dimensionally unstable materials.
- 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 over crack isolation membranes.

- Consult LATICRETE Technical Services for installation over waterproofing systems.
- Not for use in submerged applications.
- The inherent nature of the self-leveling toppings provides unique variation from job to job. Aesthetic variations are common. Variations in the surface are outside of the control of LATICRETE and are not a considered a product defect.
- Cracks are common and expected with decorative cement based topping products. Cracks are not considered a product defect. LATICRETE cannot predict if or to what extent cracking will occur.
- LATICRETE concrete overlay's are not intended to be perfectly homogeneous in appearance. Shade of color may vary slightly as these use natural mined resources. The typical application procedures of spreading and smoothing, along with the sanding process, will result in optical variations in the appearance of the floor. The aesthetic appearance that is created is subject to possible technical and artistic tolerances. Variations in the overall finished appearance should be expected.

Cautions

- Before using any LATICRETE product:
- 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.
- Do not allow foot traffic on finished work until cured.
- Do not take internally. Silica sand may cause cancer, respiratory irritation or serious lung problems. Do not breathe dust.
- Keep out of reach of children.
- Contains cement. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. In case of contact, flush thoroughly with water.
- Wear protective gloves/protective clothing/eye protection/face protection.

4. TECHNICAL DATA

Physical Properties

| Test | Test Method |
|--|---|
| Pour Depth | 1/4" to 2" Avg. Depth (6 to 51mm) 1/2" (12 mm) minimum for polishing applications. Consult Technical Services for average depths over 2" |
| Walkable | 2 to 4 hours at 70°F (21°C) |
| Flexural Strength (ASTM C1708) 28Day Cure | 900 to 1,000 psi (6.2 to 6.9 MPa) |
| Compressive Strength (ASTM C 1708) | 1 day = 3970 psi (27.4 MPa) 7 day = 5750 psi (39.6 MPa) 28 day = 7065 psi (48.7 MPa) |
| Set Time (ASTM C1708) | Initial @ 30 - 60 min. Final @ 60 - 120 min. |
| Installed Dry Weight (per square foot @ 1/4" (6mm) | 2.8 lbs/ft ² (13.7 kg/m ²) |

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

- **Underlayment Applications** – When applying NXT Level SP as an underlayment to receive floor coverings, apply LATICRETE NXT Primer. See DS 502.0 and TDS230 SUBSTRATE PREPARATION AND PRIMER GUIDE for LATICRETE SELF-LEVELING PRODUCTS for more detailed dilution, approximate coverage and application instructions.
- **Wear Surface Applications** – When applying NXT Level SP as a wear surface over concrete, apply NXT Epoxy Primer with sand broadcast before application takes place. See DS-029.3 NXT Epoxy Primer for approximate coverage and application instructions. When applying over substrates other than concrete, consult LATICRETE Technical Services.

NOTE: If moisture is present, a moisture barrier must be used. See DS 502.0 and TDS230 SUBSTRATE PREPARATION AND PRIMER GUIDE for LATICRETE SELF-LEVELING PRODUCTS for more detailed information.

- NXT Vapor Reduction Coating (sand broadcast required, cure time of 12 hours)
- VAPOR BAN Primer ER (sand broadcast required, cure time of 3 hours)

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

MIXING

- Pre-condition NXT Level SP to approved application temperature (air temperature between 50 – 90°F (10–32°C).
- Mix 50 lb. (22.7 kg) bags with 3.5 - 4.0 quarts (3.3 - 3.8 liters) of cool, clean water.
- Add product to water and mix for 2 – 3 min. with a heavy duty drill (650 rpm) to obtain a lump free mix.

CAUTION: DO NOT OVER WATER OR OVER MIX. OVER WATERING WILL CAUSE BLEEDING OR SAND SEGREGATION.

APPLICATION

Substrate temperature must be a minimum 40°F (4°C) during application and air temperature maintained between 50–90°F (10–32°C). Protect areas from direct sunlight. If required to meet design tolerances, survey surface using a digital or electronic leveling device and apply level pegs as required (level pegs are not recommended for wear surface applications). Adequate ventilation should be provided to ensure uniform drying. Pump or pour blended material onto substrate at an average thickness ranging between 1/4" to 2" (6–51 mm) for underlayment applications, and 1/2" to 2" (12–51 mm) for wear surface applications. Immediately following placement lightly smooth the surface and pour lines. When not using level pegs the use of a gauge rake will assist in controlling material depth. Do not expose NXT Level SP to rolling dynamic loads such as forklifts or scissor lifts, for at least 24 hours after installation. 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.

POLISHING

Refer to TDS 238N Guide for Polishing NXT Level SP for recommendations on polishing. Sample surfaces should be installed as a field test so as to be representative of entire surface and tested for intended use.

FLOORING INSTALLATION

Finished floor goods may be installed as soon as 1 day after application, subject to thickness, drying conditions and type of flooring materials. Always refer to finished floor manufacturer's recommendations regarding

installation instructions, restrictions, moisture conditions and compatibility. Moisture-sensitive floor goods should not be installed until floor is acceptably dry. Perform flooring manufacturer's recommended moisture testing on concrete substrate prior to installation of moisture-sensitive floor goods. 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.

CLEAN UP

In case of spillage, sweep or vacuum into appropriate container and dispose of in accordance with applicable local, provincial and federal regulations.

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 230.13: 1 Year Product Warranty

8. MAINTENANCE

Refer to TDS 184N - NXT Cementitious Decorative Toppings, for suggested maintenance for decorative surfaces.

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 502.0: NXT Primer
- DS-029.3-0917: NXT Epoxy Primer

- TDS 230: SUBSTRATE PREPARATION AND PRIMER GUIDE for LATICRETE SELF-LEVELING PRODUCTS
- TDS 238N: Guide for Polishing NXT Overlayments

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