



NXT[®] Patch

DS-501-0521

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

NXT[®] Patch

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

NXT Patch is a premium quality, fast-drying underlayment patch designed for use over most substrates. Cement-based formula is excellent for deep fills from 1/8" – 1-1/2" (3-38 mm) per lift.

Uses

- Repairs

Advantages

- Interior or exterior applications
- Excellent bond strength
- Easy to mix and apply
- Fast drying
- Can be applied directly over concrete testing at RH of 100% or less per ASTM F2170
- Fast drying, apply finish floor goods in as soon as 40 minutes
- Can be used under moisture mitigation epoxies such as NXT Vapor Reduction Coating and Vapor Ban Primer ER

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

25LB (11.3KG) BAG / 64 per pallet /
Part: 0904-0025-21

Approximate Coverage

Nominal Thickness	Approximate Coverage
1/8" (3 mm)	28.0 ft ² (2.6 m ²)
1/4" (6 mm)	14.0 ft ² (1.3 m ²)
1/2" (12 mm)	7.0 ft ² (0.7 m ²)

Coverage will vary depending on the texture of the surface.

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 Patch over particleboard, chipboard, OSB, hardboard (Masonite[®]), Luan panels, asbestos, asphalt, coal tar, lightweight insulating concrete or any other dimensionally unstable materials.
- NXT Patch is not recommended for steel-wheeled traffic.
- 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.
- Not for use as a wear surface.
- Do not apply NXT Patch 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 Patch.
- 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.
- During cold weather, protect finished work from traffic until fully cured.
- Contains portland cement and silica sand. Causes severe skin burns and eye damage. Wear protective gloves, protective 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

Testing	Results
Compressive Strength (PSI) ASTM C109	1 day = 1500 to 2000 (10.3 to 13.8 MPa) 7 day = 3000 to 3500 (20.7 to 24.1 MPa) 28 day = 4000 to 4500 (27.6 to 31.0 MPa)
Flexural Strength (PSI) ASTM C348	28 day = 1000 to 1100 (6.9 to 7.6 MPa)

Working Properties

Properties	Time
Initial Set	20 to 30 minutes
Final Set	40 to 55 minutes
Pot Life	20 to 30 minutes

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

Preparing for Concrete Substrates

- Clean substrate to eliminate dust, dirt, oil, grease, paint or any contaminants which may inhibit bonding. Do not use chemicals to clean substrate. Remove any loose particles and vacuum.
- Test surface bond strength of substrate. If minimum 100 psi (0.7 MPa) bond strength is not achieved or the substrate is contaminated, remove contaminants by mechanical means. Retest surface.
- Inspect for contraction joints, construction joints, and cracks in the substrate which may be subject to movement after installation of NXT Patch. These must be maintained as joints in the new surface.
- Maintain substrate temperature between 40°F (4°C) and 90°F (32°C) during application and air temperature between 50–90°F (10–32°C) during drying. Provide adequate ventilation to ensure uniform drying.
- For very absorptive concrete, apply a fine mist of water on top of the prepared concrete using a pump garden type sprayer, just prior to NXT Patch application. Concrete should readily absorb water. Do not apply NXT Patch where there is standing water on top of the concrete.

Preparing for poured Gypsum Underlayment

- Tensile strength of the gypsum underlayment must be at least 100 psi (0.7 MPa), tested in accordance with ASTM C1583.
- Any loose or damaged poured gypsum underlayment will have to be repaired.
- All dirt, oil, paint, laitance, efflorescence, sealers, curing compounds, dust, construction debris, and any other bond breaking contaminants must be removed by diamond grinding or shot blasting.
- Use of chemicals to remove contaminants is prohibited. Use of sweeping compound is not recommended as they may contain oil which will act as a bond breaker.
- Water drop test is recommended to determine if concrete is absorptive prior to application. Refer to DS-502_NXT Primer product data sheet for water drop test instruction. If the water drop test yields a non-suction/non-absorptive result the surface must be prepared by diamond grinding or shot blasting.
- Surface temperature must be 50–90°F (10–32°C) during application and for 24 hours after installation. In all cases, the surface temperature of the prepared concrete slab must be warm enough to avoid condensation on the surface of the concrete.

Preparing Ceramic Tile or Terrazzo

Ensure tiles are well bonded to the substrate. Mechanically abrade with a carborundum disk. Wash

and rinse thoroughly with clean water. Allow to dry.

Preparing Non-Water Soluble Cutback Adhesive

Scrape non-water soluble cutback adhesive residue from the floor and remove excess material. Ensure remaining adhesive residue is completely dry. Water soluble adhesives must be completely removed down to the bare underlayment or subfloor.

Mixing

NXT® Patch should be mixed with 3.2 – 3.5 quarts (3.0 – 3.3 L) of water per 25 lb (11.35 kg) bag. Do not over water. Add product to water and mix for 2–3 min with a heavy duty drill (650 rpm) to obtain a lump free mix.

Application

Apply blended material onto substrate at a thickness of 1/8" to 1-1/2" (3 – 38 mm) for all surfaces. After initial set of material, remove all overlap marks, seams, and inconsistencies by scraping with steel trowel. Material can be walked on as soon as 40 minutes.

Flooring Installation

Finished floor goods may be installed as soon as 40 minutes 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. 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.

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

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 (United States and Canada)
- DS 502: NXT Primer (Product Data Sheet)

LATICRETE International, Inc.

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