



NXT™ Revestimiento de Reducción de Vapor

DS-507E-0624

**Globally Proven
Construction Solutions**

Discontinued



1. NOMBRE DEL PRODUCTO

NXT™ Revestimiento de Reducción de Vapor

2. FABRICANTE

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3. DESCRIPCIÓN DEL PRODUCTO

NXT Vapor Reduction Coating is a single-coat, 100% solids, liquid applied 2-part epoxy coating specifically designed for controlling the moisture vapor emission rate from new or existing concrete slabs prior to installing NXT underlayments. NXT Vapor Reduction Coating exceeds ASTM F3010 standard with a perm rating of 0.052 grains/h/ft²/in. Hg (3 ng/h • m² • Pa) at only 12 mil thickness.

Usos

- Ideal for slab-on-grade construction and elevated slabs.
- Allows for the installation of vinyl, rubber, VCT, carpet, wood, ceramic tile, stone and other moisture sensitive floor coverings and floor adhesives.
- Commercial, retail (malls & shops)
- Health care, hospitals
- Education (schools & universities)
- Residential

- Hotels

Ventajas

- Ensures protection of moisture/pH sensitive floor coverings
- Exceeds ASTM F3010 standard
- Reduce MVER ≤25 lbs to below 3 lbs/1000ft²/24hrs (170 µg/(s•m²))
- Can be applied over new concrete in as little as 5 days
- VOC content (mixed) 75g/L
- UL GREENGUARD GOLD CERTIFIED
- Use on concrete up to 100% RH / 14 pH
- Low odor and easy to use
- Compatible with NXT underlayments as well as non-water based adhesives for hardwood, vinyl, carpet and tile
- To be used with NXT Overlays - as a primer with sand broadcast
- Direct replacement for DRYTEK Moisture Vapor Barrier

Sustratos adecuados

Presentación

- Kit por unidad completa*: 24.6 l (6.5 gal.)
 - Parte A de 8.3 l (2.2 gal.) presentada en una cubeta de acero
 - Parte B de 16.3 l (4.3 gal.) presentada en una cubeta de acero
- Kit por unidad pequeña*: 9.1 l (2.4 gal.)
 - Parte A de 3.0 l (0.8 gal.) presentada en una cubeta de acero
 - Parte B de 6.1 l (1.6 gal.) presentada en una cubeta de acero

Rendimiento aproximado

NXT Vapor Reduction Coating is to be applied at minimum thickness of 12 mils. NXT Vapor Reduction Coating when applied at a minimum 12 mils thickness exceeds ASTM F3010 and will control moisture vapor emission rate up to ≤25 lbs to below 3 lbs/1000ft²/24hrs (170 µg/(s•m²))^A. In order to help insure coverage, periodically check mil thickness using an NXT Wet Film Thickness Gauge.

mil thickness	ft ² /gal (m ² /L)
12	133 (12.4)
Each full unit will yield approximately 865 ft ² (80.8 m ²)**. Each mini unit will yield approximately 319 ft ² (29.8 m ²)**.	

**Coverage is approximate and will vary depending on CSP (concrete surface profile), mil thickness, absorption, and other field conditions.

^No visible water or condensation on the surface.

Limitaciones

- Interior use only unless used as a primer with FRACTURE BAN™
- NXT Vapor Reduction Coating is not a replacement for waterproofing membranes. When a waterproofing membrane is required HYDRO BAN® can be installed directly over NXT Vapor Reduction Coating.
- All existing expansion joints, cold joints must be brought up through the NXT Vapor Reduction Coating and the finish. Failure to honor movement joints will result in cracking and/or loss of bond.
- Not for use over any other substrates other than concrete slabs
- Cured for a minimum of 5 days at 70(F (21(C)
- LATICRETE is not responsible for moisture emission from expansion and isolation joints, existing cracks, or new cracks that may develop in the concrete slab after the system has been installed.

Precauciones

- Consult SDS for more safety information.
- NXT™ Vapor Reduction Coating Part A causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child.
- NXT Vapor Reduction Coating Part B causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction.
- 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.
- Once material is fully mixed the reaction may generate high heat if left in mixing container for an extended period of time.
- Protect finished work from traffic until fully cured.
- Do not take internally.
- Keep out of reach of children.

4. DATOS TÉCNICOS

Propiedades físicas

Test	Test Method	Results
Vapor Permeance at 12mil thickness	ASTM E96	0.052 grains/h/ft ² /in Hg (3 ng/sec • m ² • Pa)
Tensile Strength (7 days)	ASTM C1583	410 psi (2.5 MPa) Concrete Failure
Pull off Adhesion Strength	ASTM D7234	480 psi (4.6 MPa) Concrete Failure
Alkalinity Resistance	ASTM D1308	Pass (resist up to 14 pH)

Propiedades de trabajo

Property Name	Property Value
Open Time	30 minutes
Pot Life	10 to 15 minutes
Time to Foot Traffic	12 hours

Las especificaciones están sujetas a cambios sin notificación. Los resultados exhibidos son representativos pero reflejan los procedimientos de prueba utilizados. El desempeño real en el área de trabajo dependerá de los métodos de instalación y de las condiciones del lugar.

5. INSTALACIÓN

Surface Preparation

Concrete slabs must be clean, structurally sound, absorptive, and have an ICRI concrete surface profile (CSP) of 3 - 5. All dirt, oil, paint, laitance, efflorescence, sealers, curing compounds and any other bond breaking contaminants must be removed down to the full depth of contamination by shot blasting or other mechanical means then swept and vacuumed clean. 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. Do not use over gypsum or asphalt based products. Water drop test (Refer to TDS230 for water drop test instruction) is recommended prior to application of NXT Vapor Reduction Coating. If the water drop test yields a nonsuction results where the water beads up and doesn't absorb, please contact LATICRETE Technical Sales Representative. Per ASTM F3010, concrete slab to receive NXT® Vapor Reduction Coating must have a tensile pull-off strength of 200 psi (1.4 MPa) or greater when tested in accordance with ASTM C1583. 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.

Joints, Cracks, Surface Depressions and Other Irregularities

All joints and cracks should be evaluated and repaired if necessary prior to installation of NXT Vapor Reduction Coating. A good crack repair technique depends on knowing the causes and selecting appropriate repair procedures that take these causes into account. Repairing a crack without addressing the cause may only be a temporary fix. Successful long-term repair procedures must address the causes of the cracks as well as the cracks themselves. Refer to ACI 224.1R-07 for guidance on evaluation and repair of cracks in concrete. LATICRETE product application over moving cracks and joints is not recommended.

1. Moving joints (e.g. expansion joints, isolation joints, etc.) and dynamic (moving) cracks must be honored up through the NXT Vapor Reduction Coating. LATICRETE is not responsible for vapor emission through untreated joints or for areas where cracks may develop later.
2. All non-moving joints and dormant cracks (e.g. saw cuts, surface cracks, grooves, control joints, etc.) must be cleaned out and free of all loose debris. Non-structural cracks up to 1/8" (3 mm) in width can be filled with NXT Vapor Reduction Coating epoxy during main application. Inspect these areas to ensure cracks are completely filled with no voids. Non-moving joints, dormant cracks greater than 1/8" (3 mm) wide, can be patched with mixture of 1 part NXT Vapor Reduction Coating and 3 parts clean, dry play sand. In a suitable container, such as an empty NXT Vapor Reduction Coating pail, pour 1 part NXT Vapor Reduction Coating pre-blended to 3 parts clean, dry play sand, using a 300 rpm drill with jiffy paddle, mix together for 2-3 minutes until the NXT Vapor Reduction Coating and qualified sand mixture is consistent. Slowly pour the mixture into the crack, using the flat side of a trowel force the epoxy/sand mixture into the crack. Surface crazing and hairline cracks do not need filling. Construction Joints, Expansion Joints and Large moving cracks that have lost aggregate lock (one side of crack is higher than the other) have structural implications and cannot be repaired using this method.

Moisture Evaluation

Moisture testing must be conducted in accordance with finish floor goods and adhesive manufacturers' requirements prior to NXT Vapor Reduction Coating application. When evaluating moisture conditions the HVAC system or a properly conditioned temporary enclosure must be operational and in place for the minimum specified time period recommended in the moisture test standard. The concrete floor slabs and the ambient air space above the floor must be at service temperature and relative humidity for at least 48 hours before taking moisture measurements in the concrete slab. These conditions must remain throughout the test period to ensure accurate results.

Mixing

Before using, store resins at room temperature 65-85°F (18-30°C) for 24 hours to ensure ease of mixing. Mix Components A and B at a ratio of 1:2 by volume (components are packaged into the pails to the specified ratio). Pour the A component into the larger B component steel pail. Verify that all of the Part A liquid is drained from pail. Mix with a slow speed drill (<300 RPM) with a jiffy blade for 3 minutes, assuring mixture is fully uniform and that all ribbons of contrasting shade are completely eliminated. Pour the fully mixed material onto the substrate immediately after mixing.

NOTE: Do not mix NXT Vapor Reduction Coating in a plastic bucket as mix generates excessive heat!

Application

Pour ribbons of NXT® Vapor Reduction Coating onto the prepared concrete and spread using appropriate round or square notch squeegee that is designed to apply the desired mil thickness in a single coat. Apply an even coat making sure to cover all areas thoroughly. Immediately following, while epoxy is still wet, use a high quality 3/8" (9 mm) nap non-shedding paint roller to back-roll at a 90 degree from the squeegee direction to help ensure full coverage and uniform thickness. Replace worn squeegee blades and paint rollers when necessary to help ensure proper application. Use a paint brush to apply epoxy around penetrations, columns, and any other obstructions. Periodically check mil thickness using a NXT Vapor Reduction Coating Wet Film Thickness Gauge. Allow to cure for 12 hours at 50-90°F (10-32°C) prior to installation of underlayment or finish flooring. Always consult flooring and adhesive manufacturer's installation instructions, restrictions and confirm compatibility with NXT Vapor Reduction Coating. Always test performance and compatibility of floor systems prior to application.

Flooring and Self Leveling Underlayments Installation

In all cases the NXT Vapor Reduction Coating surface must be protected from traffic, dust, debris, rain, and any other contaminants. NXT self-leveling underlayments shall be installed over NXT Vapor Reduction Coating as soon as the epoxy is slightly tacky to the touch with no transfer; typically 12 hours after application depending on ambient and substrate conditions. The maximum time to install finished floor goods or NXT self-leveling underlayments over NXT Vapor Reduction Coating is 3 days provided that the surface is protected from traffic, dust, debris, water and any other contaminants. If NXT Vapor Reduction Coating is left open and unprotected longer than 3 days or the surface becomes contaminated, contact LATICRETE Technical Sales Representative. NXT self-leveling underlayments require the use of NXT Primer or Prime-N-Bond. Refer to TDS230 for detailed primer installation instructions. Always refer to finished floor manufacturer's recommendations regarding installation instructions,

restrictions, moisture conditions and compatibility. Tile or stone can be installed using LATAPOXY® 300 Adhesive or 254 Platinum. 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.

Use as a Primer for SLU's or Overlays

When using NXT Vapor Reduction Coating with sand broadcast as a primer for NXT self-leveling / overlay products, refer to TDS230 for surface prep and installation instructions.

6. DISPONIBILIDAD Y COSTO

Disponibilidad

Los materiales LATICRETE® y LATAPOXY® están disponibles en todo el mundo.

Para obtener información sobre los distribuidores, llame a:

Línea telefónica gratuita: 1.800.243.4788
Teléfono: +1.203.393.0010

Para obtener información sobre los distribuidores en Internet, visite LATICRETE en laticrete.com

Costo

Comuníquese con un distribuidor de LATICRETE de su zona.

7. GARANTÍA

Consulte la Sección 10. SISTEMAS ESPECIALES:

- 25 Year System Warranty (US) (English)
- 1 Year Product Warranty (US) (English)
- Concrete Remediation 5 Year System Warranty (US) (English)
- Concrete Remediation 5 Year System Warranty (Canada) (English)
- Concrete Remediation_10 Year System Warranty (US) (English)
- Concrete Remediation 10 Year System Warranty (Canada) (English)
- Concrete Remediation 5 Year System Warranty (Estados Unidos) (Español)
- Concrete Remediation 10 Year System Warranty (Estados Unidos) (Español)

8. MANTENIMIENTO

LATICRETE and LATAPOXY grouts require routine cleaning with a neutral pH soap and water. All other LATICRETE and LATAPOXY materials require no maintenance but installation performance and durability

may depend on properly maintaining products supplied by other manufacturers.

9. DEPARTAMENTO DE ASISTENCIA TÉCNICA

Asistencia técnica

Para obtener más información, comuníquese con la Línea Directa del Departamento de Asistencia Técnica de LATICRETE:

Línea telefónica gratuita:

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Teléfono: +1.203.393.0010, ext. 1235

Fax: +1.203.393.1948

Material informativo sobre aspectos técnicos y de seguridad

Para obtener material sobre aspectos técnicos y de seguridad, visite nuestro sitio web en laticrete.com.

10. SISTEMAS ESPECIALES

Podrá obtener más información sobre los productos en nuestro sitio web laticrete.com. A continuación,

encontrará una lista de documentos afines:

- DS 230.13: LATICRETE Product Warranty
- DS 025.0: LATICRETE 25 Year System Warranty (United States and Canada)
- DS 663.0: HYDRO BAN®
- DS 236.0: 9235 Waterproofing Membrane
- DS 502.0: NXT® Primer
- TDS 230: Substrate Preparation and Primer Guide for LATICRETE Self-Leveling Products

LATICRETE International, Inc.

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