



# Revêtement de réduction de vapeur NXT™

DS-507F-0624

**Globally Proven  
Construction Solutions**

Discontinued



## 1. NOM DU PRODUIT

Revêtement de réduction de vapeur NXT™

## 2. FABRICANT

LATICRETE International, Inc.

1 LATICRETE Park North

Bethany, CT 06524-3423 États-Unis

Téléphone: +1.203.393.0010, poste 1235

Numéro sans frais: 1.800.243.4788, poste 1235

Télécopieur: +1.203.393.1684

Site Web: [laticrete.com](http://laticrete.com)

## 3. DESCRIPTION DU PRODUIT

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/ft<sup>2</sup>/in. Hg (3 ng/h • m<sup>2</sup> • Pa) at only 12 mil thickness.

### Utilisation

- 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

### Avantages

- Ensures protection of moisture/pH sensitive floor coverings
- Exceeds ASTM F3010 standard
- Reduce MVER ≤25 lbs to below 3 lbs/1000ft<sup>2</sup>/24hrs (170 µg/(s•m<sup>2</sup>))
- 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

### Supports Appropriés

#### Conditionnement

- Trousse d'une unité complète\*: 24,6 L (6,5 gal)
  - Partie A – 8,3 L (2,2 gal) emballé dans un seau d'acier
  - Partie B – 16,3 L (4,3 gal) emballé dans un seau d'acier
- Trousse d'une mini-unité\*: 9,1 L (2,4 gal)
  - Partie A – 3,0 L (0,8 gal) emballé dans un seau d'acier
  - Partie B – 6,1 L (1,6 gal) emballé dans un seau d'acier

#### Couverture approximative

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/1000ft<sup>2</sup>/24hrs (170 µg/(s•m<sup>2</sup>))^A. In order to help insure coverage, periodically check mil thickness using an NXT Wet Film Thickness Gauge.

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

\*\*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.

### Restrictions

- 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.

### Mises en garde

- 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](http://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. DONNÉES TECHNIQUES

### Propriétés physiques

Test	Test Method	Results
Vapor Permeance at 12mil thickness	ASTM E96	0.052 grains/h/ft <sup>2</sup> /in Hg (3 ng/sec • m <sup>2</sup> • 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)

### Propriétés d'utilisation

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

Caractéristiques sous réserve de modification sans préavis. Les résultats présentés sont typiques, mais ils reflètent les procédures d'essai utilisées. Les performances réelles sur le terrain dépendent des méthodes de pose et des conditions locales.

## 5. POSE

### 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. DISPONIBILITÉ ET COÛT**

#### **Disponibilité**

Les produits LATICRETE® et LATAPOXY® sont proposés dans le monde entier.

## Appeler un des numéros suivants pour obtenir des informations relatives aux distributeurs:

Numéro sans frais: 1.800.243.4788

Téléphone: +1.203.393.0010

Pour obtenir de l'information en ligne de distributeurs, visiter LATICRETE à l'adresse suivante [laticrete.com](http://laticrete.com)

- 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

## Coût

Communiquez avec le distributeur LATICRETE le plus proche.

## 7. GARANTIE

Voir 10. SYSTÈME DE CLASSIFICATION:

- 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. ENTRETIEN

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. SERVICES TECHNIQUES

### Soutien technique

Pour tout renseignement, appeler la ligne d'aide du service technique de LATICRETE:

Numéro sans frais: 1.800.243.4788, ext. 1235

Téléphone: +1.203.393.0010, ext. 1235

Télécopieur: +1.203.393.1948

### Documentation technique et de sécurité

Pour obtenir la documentation technique et les consignes de sécurité, visiter notre site Web à [laticrete.com](http://laticrete.com).

## 10. SYSTÈME DE CLASSIFICATION

Des informations supplémentaires sur les produits sont disponibles sur notre site Web à [laticrete.com](http://laticrete.com). Liste des documents connexes:

- DS 230.13: LATICRETE Product Warranty

---

LATICRETE International, Inc.

One LATICRETE Park North, Bethany, CT 06524-3423 USA • 1.800.243.4788 • +1.203.393.0010 • [www.laticrete.com](http://www.laticrete.com)

© 2024 LATICRETE International, Inc. All trademarks shown are the intellectual properties of their respective owners.