LATICRETE® NXT™ Primer

DS-502.0-0913

Globally Proven Construction Solutions

1. PRODUCT NAME

LATICRETE® NXT™ Primer

2. MANUFACTURER

LATICRETE UK
Speke Hall Industrial Estate
Speke, Liverpool, Merseyside, L24 1YA
United Kingdom
Tel: 0151 486 6101; Fax: 0151 448 1982
e-mail: sales@laticrete.co.uk
www.laticrete.co.uk

3. PRODUCT DESCRIPTION

NXT Primer is a concentrated premium quality, water-based primer designed to be applied prior to the installation of NXT™ Underlayments. NXT™ Primer penetrates deeply into substrates and maximizes bond strength.

NXT™ Primer can also be used to improve, adhesion strength and long-term durability of the bond between Laticrete® adhesives and any semi-porous or absorbent surface substrate. It is a safe to use and can be applied to a wide range of building materials including applications where contact with water is likely.

Suitable Substrates (Interior Only)

- Concrete
- Vinyl Tile
- Cement Terrazzo
- Exterior WBP Glue Plywood
- Ceramic Tile and Stone
- Gypsum based screeds**
- Cement Mortar Beds
- Cement Backer Board*

* Consult cement backer board manufacturer for specific installation recommendations.
**Seals gypsum surfaces when applied as 2 coats neat prior to over-laying with a cement based product

Advantages

- NXT™ Primer is multi-purpose and can be used on a wide range of substrates for both levellers and adhesives where specified.
- NXT™ Primer may be brush, roller, or spray applied.

Packaging

5 litre (4 per case)
25 litre drum

Shelf Life

NXT™ PRIMER should be stored in original packaging. Use within one (1) year of date of manufacture. Do not store at temperatures below freezing.

Limitations

- Do not install when surface temperature is below 40°F (4°C), when ambient temperature is expected to be below 50°F (10°C) during placement or before material takes final set or when temperature will be above 90°F (32°C).

Cautions

Before using any LATICRETE® product:

- Read and understand the Product Data Sheet and Material Safety Data Sheet.
- Check **www.laticrete.com** for any technical bulletins or updated information about the product and its application.
- NXT™ PRIMER is water based and is non-hazardous under normal conditions of use. In case of skin contact, wash immediately with water.
- Wear gloves and protective goggles.
- When spraying the product, avoid breathing the fine mist and use a NIOSH approved respirator.
- Contact your local LATICRETE® Technical Sales Representative with any questions.
- Not for submerged applications.
- Keep out of reach of children.

4. TECHNICAL DATA

Actual field performance will depend on installation methods and site conditions. Specifications are subject to change without notification. Technical data shown in LATICRETE® product data sheets and technical data sheets are typical but reflect laboratory test procedures conducted in laboratory conditions. Actual field performance and test results will depend on installation methods and site conditions. Field test results will vary greatly due to variability of critical job site factors.

5. INSTALLATION

Surface Preparation

- Refer to TDS 230N LATICRETE® NXT™ Substrate Preparation and Primer Guide for more detailed substrate preparation instructions.
- All concrete slab surfaces must be allowed a minimum of 28 days to fully cure.
- Clean substrate to eliminate laitance, dust, dirt, oil, grease, paint or any contaminants which may inhibit bonding. Do not use chemicals to clean substrate. Remove any loose particles by vacuuming and damp sponging.
- Inspect for any movement, expansion or construction joints and cracks in the substrate which may be subject to movement after installation of a NXT™ self-leveling underlayment. These must be maintained as joints through the NXT™ self-leveling underlayment.
- For exterior glue WBP plywood substrates use 3.2# galvanized diamond metal lath.
- Maintain substrate temperature between 40 – 90°F (4 – 32°C) during application and air temperature between 50 – 90°F (10 – 32°C) during drying. Provide adequate ventilation to ensure uniform drying.

Mixing

NXT™ Primer is a concentrate and must be diluted with clean potable water. Dilution ratio varies depending on the substrate.

NXT PRIMER DILUTION / APPROXIMATE COVERAGE

SUITABLE SUBSTRATES	Primer to Water Ratio[1]	Coverage per litre conc't
Normal Suction: Concrete	1:3	10.0 m²
High-Suction: Highly Porous Dry Concrete / All LATICRETE NXT Underlayments / Cement Mortar Beds	1st coat: 1:5 2nd coat: 1:3	4.9 m²
Exterior Glue WBP Plywood	5:1	4.9 m²
Non-Suction: Ceramic, Stone, Quarry Tile / VCT, VAT, Sheet Vinyl / Cement Terrazzo	1:1 with slurry	6.8 m²
LATAPOXY® 312 Vapor Reduction Membrane	1:1 with slurry	6.8 m²

1. Dilution Ratio = Primer: Water

Determination of surface type & primer required

To assist in determining the strength of primer dilution needed the water drop test described is a subjective, qualitative method that may be conducted in order to help an experienced contractor form an opinion as to how a masonry surface should be primed. However, this test may not be definitive.

To help determine the appropriate primer dilution, properly prepare slab in accordance with this guide then apply several large size drops of water to properly prepared surface and observe.

a) **High-Suction** = Water completely absorbs into surface within 15 seconds; surface may appear dark and wet with no visible water remaining on surface

b) **Normal-Suction** = Water absorbs or partially absorbs within 30 seconds but not less than 15 seconds; bead of water may slowly shrink as it absorbs while dark, wet spot on surface slowly expands

c) **Non-Suction** = Water beads up and does not absorb at all within 30 seconds; bead of water does not shrink or absorb, wet spot on surface does not expand.

Application

For full application instructions refer to NXT™ Substrate Preparation and Primer Guide, TDS 230N. 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.

General Priming Information:

All surfaces must be primed prior to the installation of NXT™ self-levelling underlayment. NXT™ Primer is a concentrate and must be diluted with clean potable water prior to application. Dilution ratio and application methods vary depending on substrate. Always stir or shake NXT™ Primer concentrate prior to diluting. Mix primer with clean potable water according to the coverage chart above. Water must always be carefully measured in order to ensure proper dilution is achieved.

Use a slow speed mixing action to thoroughly combine primer and water. NXT™ Primer can be broom, roller, mop, or spray applied. Substrate temperature must be a minimum 4°C during primer application and throughout drying time. Additionally, air temperature must be maintained between 10–32°C during primer application and throughout drying time. The primed surface must also be protected from weather, water and direct sunlight.

Priming Normal Suction Concrete:

Dilute NXT™ Primer 1:3 (1 part primer to 3 parts water). Apply a single coat of diluted Primer/water mix to the point of refusal so that the substrate is completely covered and small puddles form in low spots. While NXT™ Primer is still wet use a push broom to work primer into the substrate so that puddles are spread evenly over the surface, absorbed and a uniform film has been applied. Remove any remaining puddles by brushing and spreading over the surface.

Priming High-Suction Concrete:

Apply **two coats** of NXT™ Primer allowing adequate time to dry between coats. For the **first coat**, dilute NXT™ **Primer 1:5** (1 part primer to 5 parts water). Apply first coat of diluted primer/water mix to the point of refusal so that the substrate is completely covered and small puddles form in low spots. While primer is still wet use a stiff brush to work primer into the substrate so that puddles are spread evenly over the surface. Allow the primer to dry. The first coat is considered dry when a minimum of 3 hours dry time has elapsed, the primer turns from milky white to clear, is dry to the touch, and there is no release of primer from the substrate. First coat must not be opened to trade traffic prior to installation of second coat.

For the **second coat**, dilute NXT™ **Primer 1:3** (1 part primer to 3 parts water). Apply second coat of diluted primer/water mix to the point of refusal so that the substrate is completely covered and small puddles form in low spots. While second coat of primer is still wet use a stiff brush to work primer into the substrate removing all pools and puddles to give a uniform film.

Priming Exterior Glue WBP Plywood:

Dilute NXT™ Primer 5:1 (5 parts primer to 1 part water). Using a sprayer or broom, apply a single coat of diluted primer/water mix so that the substrate is completely covered and a uniform film has been applied. Fasten galvanized diamond metal lath over entire exterior glue plywood substrate using corrosion resistant fasteners every 6" (15 cm) overlapping lath seams by 1" (2.5 cm) and Protect the finished prime surface from traffic.

Non-Suction Substrates: Non-Suction substrate primer dilution and application instructions are intended for ceramic tile, stone, quarry tile, VCT, VAT, sheet vinyl and moisture mitigation systems that have been properly prepared in accordance with this guide and moisture mitigation manufacturer's instructions. Concrete slabs that are considered Non-Suction will require additional preparation prior to primer application. Substrates such as cement terrazzo, ceramic tile, quarry & vitrified tiles must be solid, well bonded, clean and free of any contaminants, glazes, wax, sealers and any other potentially bond inhibiting substance. Most non-suction surfaces must be mechanically abraded and cleaned followed by tensile strength testing per ASTM C1583. A minimum of 0.7MPa tensile strength is required prior to installation of NXT™ self-levelling underlayment. Any areas that are loose, broken or do not meet a minimum tensile strength must be removed and repaired. Once repaired and clean, the surface must be properly primed. Not all non-suction/non-porous floors are suitable substrates for NXT™ product installations.

Dilute NXT™ Primer 1:1 (1 part Primer to 1 part water). Apply a single coat of diluted primer/water mix to the point of refusal so that the substrate is completely and evenly covered.

Note: While primer is still wet and white, immediately lightly scatter NXT™ self-levelling dry powder into the wet primer. Using a push broom work the dry powder into the wet primer coating to forming a thin slurry film.

Alternatively, mix about 1 part 1:1 primer with 1 part levelling compound mechanically and then apply this mix as directed above again continuing to brush so that puddles are spread evenly over the surface and a uniform thin layer film is achieved.

Drying time:

Allow the NXT™ Primer to completely dry for a minimum of 3 – 5 hours at 70°F (21°C) and 50% Relative Humidity. NXT™ Primer coat is considered dry when a minimum of 3 hours dry time has elapsed, the primer turns from milky white to clear, is dry to the touch, and there is no release of primer from the substrate. Surface may feel slightly tacky. Drying time will vary depending on surface and ambient air conditions. Substrate temperature must be a minimum 40°F (4°C) during primer application and throughout drying time. Additionally, air temperature must be maintained between 50–90°F (10–32°C) during primer application and throughout drying time. Primer must also be protected from weather and direct sunlight. Temperatures below 70°F (21°C) and/or relative humidity above 50% will prolong drying time. Insufficient drying or poor film formation will result in pinholes and poor bond strength and may cause NXT™ self-levelling underlayment to de-bond.

Cleaning

Clean tools and masonry with water.

6. AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY® materials are available worldwide. For on-line Distributor Information, call 0151 486 6101 or visit LATICRETE UK at
www.laticrete.co.uk

7. 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.

8. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the LATICRETE® UK Technical Service Hotline:
Tel: 0151 486 6101
Fax: 0151 448 1982
e-mail: sales@laticrete.co.uk

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at **www.laticrete.co.uk**

9. DISCLAIMER

The information contained in this document is given in good faith and to the best of our knowledge is true and accurate.

This information is subject to change without notice and it is the responsibility of the user to obtain up to date and current information.

The use of this product is beyond our control and liability is assumed by the user when used incorrectly and not in accordance with LATICRETE guidelines.

The manufacturer is not responsible for any loss or damage arising from incorrect usage of this product.

The specifier or other party responsible for the project must ensure that the details in this data sheet are appropriate for the intended application and that additional detailing is performed for specific design or any areas that fall outside the scope of this specification.

LATICRETE International, Inc.
One LATICRETE Park North, Bethany, CT 06524-3423 USA • 1.800.243.4788 • +1.203.393.0010 • www.laticrete.com