

# NobleBond 21

## Installation Instructions

www.noblecompany.com

### 1. PRODUCT DESCRIPTION

NobleBond 21 is a non-flammable, ready-to-use, latex-based adhesive. Use to bond NobleSeal® sheet membranes for crack isolation/joint bridging and sound control.

### 2. SUITABLE SUBSTRATES

Structurally sound flat concrete, properly primed gypsum or lightweight underlayments, plywood\*, or terrazzo substrates above, on or below grade in the absence of excessive moisture and/or alkali.

### 3. DIRECTIONS (Refer to instructions on container label)

**A)** This adhesive is for specific interior installations on horizontal floors with NobleSeal sheet membranes. For any application not recommended, contact the supplier or Noble Company before using. Not for use in vertical or exterior applications.

**B)** Substrate must be clean, dry, and free of dirt, wax, dust, sealers, or chemicals that might interfere with bonding.


**NOTE:** While this adhesive is freeze-thaw stable to 10°F, it is still necessary to protect it from very low temperatures and freezing solid. Do not use below 65°F. Condition the area to be installed, adhesive and NobleSeal sheet at 65°F or higher for 24 hours before and after installation.

**C) Concrete substrates must be checked for moisture and pH.**

1) Moisture of substrate must not exceed 5 lbs./1000 sq.ft./24 hours (as measured by an Anhydrous Calcium Chloride test method).

2) pH must be between 5 and 9.

3) If either of these parameters are not met, the condition must be corrected prior to using NobleBond 21.

**3.1** If the finished floor will be ceramic or stone tile, apply adhesive with a 1/16" x 1/16" x 1/16" square-notch trowel. 

On porous, rough, or uneven substrates, more adhesive may be necessary to achieve a suitable bond.

**NOTE:** If a larger trowel is used, more time for evaporation will be required and square foot coverage will decrease.

**3.1.1** Approximate coverage is 150-175 sq.ft./gallon on concrete with a steel trowel finish. The porosity and surface of the substrate can reduce coverage.

**3.1.2** NobleBond 21 should be combed (troweled) in parallel lines to avoid trapping air under the sheet membrane.

**NOTE:** Sufficient adhesive must be evenly spread to insure adequate transfer of adhesive to the sheet. Check for complete transfer of adhesive by lifting the sheet and inspecting the amount of adhesive on the sheet. Variables such as substrate porosity can affect the coverage. An acrylic primer will reduce porosity and improve bonding.

**3.2** Wait for evaporation of some of the moisture.

**NOTE:** Adhesive will change color (from yellow to translucent) and become "tacky" to the touch but still transfers to both the sheet and the substrate. Tack will increase with time making it more difficult to reposition NobleSeal sheet. Variables such as temperature, humidity, and air flow also affect the curing time. Do not allow "skin" to form on adhesive. Time for evaporation in "normal" conditions is approximately 20-30 minutes. Temperatures below 70°F and humidity above 40% will significantly delay evaporation. For impervious substrates, allow NobleBond 21 to dry until it is a contact adhesive before installing the sheet. Test a small area to insure proper tack.

**3.3** Install NobleSeal sheet. Embed sheet with a vinyl roller (75-100 lbs.) or use flat side of trowel to embed the membrane and force air out. Check to insure that adhesive transfers to sheet from substrate.

**3.4** Foot traffic can be allowed after sheet is installed; heavy traffic allowed after 24 hours. Protect sheet from damage.

**3.5** In the event air is trapped under the sheet, puncture sheet and press down.

### 4. TILE INSTALLATION

Tile can be installed on the NobleSeal sheet after completion of steps 3.1 to 3.5. Allow tile and grout to cure before allowing heavy traffic. Tile should be installed following mortar manufacturer and TCNA recommendations. **CAUTION:** NobleBond 21 is not to be used to bond tile.

### 5. CLEANING

Use sponge and warm, soapy water while adhesive is wet. If dry, use mineral spirits or citrus-based solvents. Follow warnings on label.

### 6. WARRANTY

These suggestions and data are based on information Noble Company believes to be reliable. Users should verify by tests that NobleBond 21, as well as these installation methods, are suitable with the products being used in their application. Since specific use, materials and handling cannot be controlled by Noble Company, warranty is limited to the replacement of defective Noble Company products. Noble Company disclaims any warranties of merchantability and fitness for purpose, verbal recommendations of its representatives, and consequential damages. The remedy of the purchaser set forth herein is exclusive.

\*Plywood must conform to tile industry standards.



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File #21032015-02 | 03/15 | Supersedes NB21 04/09

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