



**North American**  
**ADHESIVES®**

**NA 310**

# Self-Leveler Primer

## All-Purpose Primer for Self-Leveling Underlayments



### DESCRIPTION

NA 310 Self-Leveler Primer is a low-VOC, water-based acrylic primer that enhances the performance and adhesion of self-leveling underlayments on nonabsorbent surfaces such as ceramic tile, vinyl composition tile (VCT), epoxy moisture barriers and adhesive residue, as well as on profiled, absorbent surfaces. Ideal for a variety of substrates, NA 310 dries clear and combines excellent versatility with easy application. It is compatible with NA 400 Self-Leveler.

### FEATURES AND BENEFITS

- Ready-to-pour, versatile primer for a wide variety of substrate conditions
- Low odor and VOC compliance for safe use in interior, occupied environments
- Single-coat application for faster turnaround and lower installation costs

### USES

- Use NA 310 when applying NA 400 on properly prepared suitable substrates.
- Interior residential (apartments, condominiums and homes)
- Interior commercial (office buildings, hotel rooms/hallways, restaurants and cafeterias)
- Interior heavy commercial (hotel lobbies, convention centers, airports, shopping malls, grocery stores and department stores)
- Interior institutional (hospitals, schools, universities, libraries and government buildings)

Note: The owner should communicate in writing to the project design professional and general contractor the "intended use" of the tile installation, in order to enable the project design professional and general contractor to make necessary allowances for the expected live load, concentrated loads, impact loads, and dead loads including the weight of the tile and setting bed. The tile installer shall not be responsible for any floor framing or subfloor installation not compliant with applicable building codes, unless the tile installer or tile contractor designs and installs the floor framing or subfloor.

Consult Technical Services for installation recommendations regarding substrates and conditions not listed.

### LIMITATIONS

- Do not install NA 310 over any substrates containing asbestos.
- Use NA 310 only in dry, interior environments.
- Do not acid-etch surfaces before applying NA 310.
- The surface temperature of a concrete installation area must be at least 5 degrees F (2,8 degrees C) above the dew point to avoid condensation on the surface as NA 310 dries.
- For moisture limits regarding NA 310, refer to the moisture limits of the product to be applied over it.

### SUITABLE SUBSTRATES (properly prepared)

- Properly prepared and bonded tile, stone and VCT
- Properly prepared and installed 100%-solids epoxy moisture barriers
- Epoxy cement terrazzo and poured epoxy flooring
- Cement backer units (CBUs)
- Substrates with traces of well-adhered, water-resistant glue (cutback adhesive, floor-covering adhesive or polyurethane adhesive)
- Dimensionally stable exterior-grade plywood

### Tile Council of North America (TCNA) Statement on Deflection Criteria

Floor systems, including the framing system and subfloor panels, over which tile will be installed should be in conformance with the IRC [International Residential Code] for residential applications, the IBC [International Building Code] for commercial applications, or applicable building codes.

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- Properly prepared sound and stable concrete substrates, whether smooth and nonabsorbent or profiled and absorbent
- Gypsum-based SLUs that are free of gypsum dust

Consult Technical Services for installation recommendations regarding any substrates and conditions not listed.

## SURFACE PREPARATION

- All substrates must be interior, structurally sound, dry, solid and stable.
- Mechanically prepare existing ceramic, quarry and porcelain tile, as well as cement terrazzo.
- Thoroughly clean all surfaces of any substance that could interfere with the bond of the installation material, including dirt, dust, paint, tar, asphalt, wax, oil, grease, latex compounds, sealers, curing compounds, form release agents, laitance, loose toppings, foreign substances and poorly bonded adhesive residues.
- Do not acid-etch surfaces before applying *NA 310*.
- When applying underlayments to plywood flooring or oriented strand board (OSB), the installation specifics (finished flooring, load, use and/or deflection) may require the use of a lath or diamond mesh (meeting the requirements of ASTM C847) on top of the primed surface before application of the underlayment. In all cases, improvement performance generally results from the utilization of lath, particularly over OSB. Refer to the lath manufacturer's Technical Data Sheet for installation instructions. Differential or excessive movement within a plywood substrate may lead to hairline cracks at plywood joints.

## MIXING

Choose all appropriate safety equipment before use. Refer to the Safety Data Sheet for details.

- 1a. Over nonabsorbent surfaces: Apply *NA 310* undiluted over such substrates as moisture-stable, exterior-grade plywood; epoxy moisture barriers; floor-covering adhesive residue; and properly prepared ceramic tile and VCT. (No water or mixing is required.)
- 1b. Over porous, absorbent surfaces (typically profiled concrete): Dilute *NA 310* with water at a ratio between 1-to-1 and 2-to-1 (water to primer). Mix with water in a separate, clean container with a low-speed mixer and paddle to a homogenous consistency. Do not mix at high speeds, which may cause product foaming.
- 1c. Over gypsum substrates: Dilute at a ratio of 2-to-1 (water to primer). Mix as indicated in Step 1b and apply two coats if required by visual inspection.

## PRODUCT APPLICATION

Read all installation instructions thoroughly before installation. Substrate and ambient temperatures must be between 50°F to 90°F (10°C to 32°C).

1. Apply the product with a 3/8" (10 mm) nap roller. Ensure that the surface receives a complete, thin film of product.
- 2a. Nonabsorbent substrates and wood require only one coat of undiluted *NA 310*.
- 2b. Absorbent and gypsum substrates may require more than one coat of diluted *NA 310* to seal off the substrate and prevent substrate outgassing.
3. The underlayment can typically be applied within 2 to 5 hours (see the "Shelf Life and Application Properties" table). Drying times will vary depending on the porosity of the surface, temperature and humidity. The maximum wait time from initial application is 24 hours.
4. If the dried *NA 310* remains uncovered for more than 24 hours, re-apply a second, undiluted coat and install the underlayment within the correct application window (see the "Shelf Life and Application Properties" table). If the application window is missed again, remove the primer mechanically and start the installation on the clean substrate.

## CLEANUP

Clean equipment immediately with water. Use distilled alcohol or mineral spirits to remove *NA 310* that has dried on tools.

## PROTECTION

Protect *NA 310* from freezing while in transport or storage. Provide for dry, heated storage on site and deliver materials at least 24 hours before applications begins. Protect primed surface from direct sunlight, contamination and water intrusion that may affect the underlayment's bond.



<b>Product Characteristics</b>	
at 73°F (23°C) and 50% relative humidity	
Laboratory Tests	Results
Solids content	43% to 45%
VOCs (Rule #1168 of California's SCAQMD)	92 g per L
pH	7 to 8
Viscosity (RV2 @ 20 rpm)	1,400 cps
Density	64.2 lbs. per cu. ft. (1,03 g per cm <sup>3</sup> )
Application temperature range	50°F to 90°F (10°C to 32°C)

<b>Shelf Life and Product Characteristics</b>	
at 73°F (23°C) and 50% relative humidity	
Shelf life	2 years when stored in original, unopened packaging in a dry, covered location
Window for application of primer at 73°F (23°C)	2 to 3 hours of drying time up to 24 hours from application over porous substrates (concrete, wood and gypsum); 4 to 5 hours of drying time up to 24 hours from application over nonporous substrates (ceramic and VCT)
Polymer type	Acrylic
Consistency	Pourable liquid
Color	White
Flash point (Seta)	> 212°F (100°C)

<b>CSI Division Classification</b>	
Cast Underlayment	03 54 00

<b>Packaging</b>	
Product Code	Size
36691125	Bottle: 1 U.S. qt. (946 mL)
36657125	Jug: 2 U.S. gals. (7,57 L)

<b>Approximate Coverage*</b> applied undiluted with a 3/8" (10 mm) nap roller	
Size	Coverage
1 U.S. qt. (946 mL)	50 to 100 sq. ft. (4,65 to 9,29 m <sup>2</sup> )
2 U.S. gals. (7,57 L)	400 to 800 sq. ft. (37,2 to 74,3 m <sup>2</sup> )

\* Coverage depends on the substrate profile and porosity.

<b>Industry Standards and Approvals</b>	
LEED v3 Points Contribution	LEED Points
MR Credit 5, Regional Materials**	Up to 2 points
IEQ Credit 4.2, Low-Emitting Materials – Paints & Coatings	1 point

\*\* Using this product may contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.

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**ADHESIVES®**

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Refer to the Safety Data Sheet for specific data related to health and safety as well as product handling. For the most current product data and warranty information, visit [www.na-adhesives.com](http://www.na-adhesives.com).



### Statement of Responsibility

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**