



North American
ADHESIVES®

NA 310

Self-Leveler Primer

All-Purpose Primer for Self-Leveling Underlayments



PRODUCT 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 wide variety of substrates, *NA 310* dries to magenta in color 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)

SUBSTRATE REQUIREMENTS

- 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.

Tile Council of North America (TCNA) Maximum Allowable Deflection for Floor Systems and Substrates

Floor systems, whether wood framed or concrete, over which the tile will be installed using the appropriate TCNA method, according to the Floor Tiling Installation Guide, shall be in conformance with the International Residential Code [IRC] for residential applications, the International Building Code [IBC] for commercial applications, or applicable building codes. ... The owner should communicate in writing to the project design professional and general contractor the intended uses of the tile installation, including in-service loads or information to allow a project design professional to calculate such. ... The tile contractor shall not be responsible for problems resulting from any structural subfloor installation not compliant with applicable building codes, unless structural subfloor was designed and installed by tile contractor, nor for problems from overloading.

Please reference the most current version of the TCNA handbook for more complete substrate requirements.

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



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SUITABLE SUBSTRATES

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

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.

MIXING

Before product use, take appropriate safety precautions. Consult the Safety Data Sheet for safe-handling instructions.

- 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.

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 "Product Characteristics" 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 "Product Characteristics" 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 application begins. Protect primed surface from direct sunlight, contamination and water intrusion that may affect the underlayment's bond.

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Product Characteristics	
at 73°F (23°C) and 50% relative humidity	
Polymer type	Acrylic
Consistency	Pourable liquid
Color	Magenta
Packaging	Bottle: 1 U.S. qt. (946 mL) Jug: 2 U.S. gals. (7.57 L)
VOCs (Rule #1168 of California's SCAQMD)	92 g per L
Shelf life	2 years when stored in original, unopened packaging in a dry, covered location
Window for application of primer	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)
Flash point (Seta)	> 212°F (100°C)
Solids content	43% to 45%
pH	7 to 8
Viscosity (RV2 @ 20 rpm)	1,400 cps
Density	64.2 lbs. per cu. ft. (1.03 g per cm ³)
Application temperature range	50°F to 90°F (10°C to 32°C)

CSI Division Classification	
Cast Underlayment	03 54 00

Approximate Coverage* applied 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 ²)
2 U.S. gals. (7,57 L)	400 to 800 sq. ft. (37.2 to 74.3 m ²)

* Coverage depends on the substrate profile and porosity.



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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.

For information on sustainability and transparency, as well as product certification programs,
contact Technical Services at 1-800-637-7753.

PR: 5869 MKT: 18-2475

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in effect at the time of the NAA product installation. For the most up-to-date TDS and warranty information, visit our Website at www.na-adhesives.com. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED NAA WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **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.**