



North American
ADHESIVES®

NA 2000 Tile Adhesive

Premixed Adhesive for Ceramic and Porcelain Tile



PRODUCT DESCRIPTION

NA 2000 Tile Adhesive is a ready-to-use, nonflammable, high-viscosity, synthetic polymer emulsion-based adhesive with extended open time. It can be used for indoor, light-duty, residential installations of mosaic, ceramic, quarry, porcelain and non-moisture-sensitive tile on floors, countertops and ceilings (up to 6" x 6" [15 x 15 cm]) and walls (up to 8" x 8" [20 x 20 cm]) in dry or intermittent wet areas (backsplashes, shower, tub and bath surrounds). NA 2000 has nonslip attributes for vertical use and is easy to trowel on floors, walls and ceilings.

USES

- For installing wall tile in intermittent wet conditions such as backsplashes, tub and shower surrounds having precast bases and where service requirements do not exceed ANSI A136.1, Type 1 standards
- For interior wall tile up to 8" x 8" (20 x 20 cm) and ceiling tile up to 6" x 6" (15 x 15 cm) in residential and light commercial installations
- For interior floor and countertop tile up to 6" x 6" (15 x 15 cm) in dry residential areas only
- For setting most ceramic, ceramic mosaics and porcelain tile

SUBSTRATE REQUIREMENTS

Substrates must be in accordance with ANSI A108.01 current standards and recommendations. All supporting surfaces must be structurally sound. The surface area that will receive tile must be dry, clean and free of dust, oil, grease, tar, paint, wax, curing agents, primers, sealers, release agents, existing adhesives and any other substance that can weaken the adhesive's bond to the substrate. If the surface contains these substances, they must be mechanically removed.

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.

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.

SUITABLE SUBSTRATES (properly prepared)

- Fully cured concrete (cured for at least 28 days)
- Cement backer units – see manufacturer's installation guidelines
- Cement mortar beds and leveling coats
- Masonry block and brick
- Gypsum wallboard, properly primed (interior walls only in dry to intermittent wet areas)
- APA and CANPLY Group 1 exterior-grade plywood (interior residential floors and countertops in dry conditions only; see TCNA Handbook for additional information)

See the "Surface Preparation Requirements" document for North American Adhesives (NAA) at www.na-adhesives.com.

LIMITATIONS

- Install only at temperatures between 50°F and 95°F (10°C and 35°C).

NA 2000

Tile Adhesive

- Do not use for:
 - Application over presswood, particleboard, chipboard, oriented strand board (OSB), hardwood flooring, Masonite, Lauan, plastic laminate surfaces, vinyl composition tile (VCT), substrates containing asbestos, cutback adhesive residue, metal or dimensionally unstable materials.
 - Application over non-porous surfaces such as waterproof membranes.
 - Setting glass tile or natural stone.
 - Setting bathroom fixtures or grab bars.
 - Setting agglomerate tiles or resin-backed tiles. Instead, use a suitable epoxy or urethane adhesive.
 - Application on exterior commercial building facades, such as shopping malls, office buildings, high-rise residential units, etc.
 - Application in areas of prolonged water immersion (swimming pools, spas, steam rooms, gang showers, hot tubs, fountains).
 - Application in areas subject to severe freeze/thaw conditions. Instead, mix *NA 3000* additive with *NA 3120 Dual Set™*.
- Use a typical notched trowel (see the “Approximate Coverage” chart) to achieve proper adhesive contact on the back of tiles (80% minimum).
- Do not spread more material than can be tiled over before ridges skin over.
- Product has a working time of about 30 to 45 minutes.

MIXING

Consult the Safety Data Sheet for safe-handling instructions.

- NA 2000 is ready to use. No mixing is required.

APPLICATION

1. Choose a typical notched trowel (see the “Approximate Coverage” chart) with sufficient depth to achieve more than 80% adhesive contact to both the tile and substrate.
2. With pressure, apply a thin coat by using the trowel’s flat side to key adhesive into the substrate.
3. Apply additional adhesive, combing it in a single direction with the trowel’s notched side to achieve an even-setting bed.
4. Spread only as much adhesive as can be tiled within 30 to 45 minutes. Open time can vary with jobsite conditions. If the adhesive skins over, scrape off and replace with fresh adhesive.
5. Place the tiles firmly into the adhesive. Push the tiles back and forth in a direction perpendicular to trowel lines, to collapse the adhesive ridges and to help achieve maximum coverage. Ensure proper contact between

the adhesive, tile and substrate by periodically lifting a few tiles to check for acceptable coverage.

6. Remove excess adhesive from the joint areas so that at least 2/3 of the tile depth is available for grouting (see ANSI A108.10 guidelines).

MOVEMENT JOINTS

- Provide for movement joints where specified. Refer to the most current TCNA handbook for ceramic tile installation, Detail EJ-171.
- When necessary, cut tiles along both edges of the expansion joints. Do not allow the tile and mortar to overlap the joints.
- Protect tilework with metal strips (edge metal) along both edges of structural building expansion joints.
- Install the specified compressible backer rod and sealant into all expansion and control joints.

GROUTING

- Allow tile to reach a firm set before grouting with an appropriate NAA grout.

CLEANUP

- Clean tools, tile and other surfaces with water while the adhesive is fresh.
- If the adhesive has dried, clean with mineral spirits.

PROTECTION

- Provide for dry, heated storage on site and deliver materials at least 24 hours before tilework begins.
- Floors: Protect from foot traffic for at least 72 hours after installation. Protect from heavy traffic for 7 days. Plywood or stepping boards may be used after 24 hours when occasional stepping on the floors is unavoidable.
- Walls: Protect from impact, vibrations and heavy hammering on adjacent and opposite walls for at least 14 days after installation.
- Temperature and humidity (during and after the installation of tile) affect the final curing time. Allow for extended periods of cure and protection when temperatures drop below 60°F (16°C) and/or when the relative humidity is higher than 70%.






ANSI Specification		
Test Method	Specification Standard	Test Results
ANSI A136.1 – shear strength (7 days)	Dry: ≥ 50 psi (0,34 MPa)	Pass
	Wet immersion: ≥ 50 psi (0,34 MPa)	Pass
ANSI A136.1 – shear strength (28 days)	≥ 50 psi (0,34 MPa)	Pass

Product Characteristics	
at 73°F (23°C) and 50% relative humidity	
Color	Beige
Packaging	Pail: 3.5 U.S. gals. (13,2 L) Pail: 5 U.S. gals. (18,9 L) – Canada only
VOCs (Rule #1168 of California's SCAQMD)	50 g per L
Shelf life	2 years when stored in original sealed container at room temperature in a dry, heated area. Protect from moisture, freezing and excessive heat.
Open time*	About 30 to 45 minutes
Time before grouting*	Allow tile to reach a firm set.
Cleanup	With clean water while fresh; with mineral spirits once dried

* Open time and time before grouting vary based on jobsite conditions.

ISO 13007 Classification		
Classification Code	Classification Requirement	Test Results
D1 (normal mastic)	Shear adhesion strength; Shear adhesion strength after aging; Open time: tensile adhesion strength	Pass
T (vertical slip resistance)	Slip ≤ 0,5 mm	Pass
E (extended open time)	≥ 0,5 N/mm ² (after not less than 30 minutes)	Pass

Approximate Coverage**		
Typical Trowel	Coverage per 3.5 U.S. gals. (13,2 L)	Coverage per 5 U.S. gals. (18,9 L) – Canada only
1/8" x 1/8" x 1/8" (3 x 3 x 3 mm), square-notched 	175 to 245 sq. ft. (16,3 to 22,8 m ²)	250 to 350 sq. ft. (23,2 to 32,5 m ²)
3/16" x 5/32" (4,5 x 4 mm), V-notched 	140 to 175 sq. ft. (13,0 to 16,3 m ²)	200 to 250 sq. ft. (18,6 to 23,2 m ²)
1/4" x 1/4" x 1/4" (6 x 6 x 6 mm), square-notched 	87.5 to 123 sq. ft. (8,13 to 11,4 m ²)	125 to 175 sq. ft. (11,6 to 16,3 m ²)

** Coverage shown is for estimating purposes only. Actual coverage depends on substrate profile and porosity, equipment used, thickness applied, temperature and humidity.

Industry Standards and Approvals	
LEED v4 Points Contribution	LEED Points
Environmental Product Declaration (EPD): Tile Council of North America (TCNA) Industry Average EPD for Mortars***	1/2 point
Health Product Declaration (HPD)***	Up to 2 points

*** Using this product may help 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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Printed in the USA.
Edition Date: September 29, 2016
Canada
1-844-410-1212

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.



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.**

PR: 5363 MKT: 16-2108