



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 residential and light commercial interior installations of wall tiles up to 8" x 8" (20 x 20 cm), and interior residential floor and countertop tile up to 6" x 6" (15 x 15 cm). *NA 2000 Tile Adhesive* also has minimal odor, making it ideal for tile installations in confined or restricted areas.

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, 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.

SUITABLE SUBSTRATES

- 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
- Gypsum wallboard, properly primed (interior walls only in dry areas)
- Plywood underlayment that are a Group 1 exterior-grade plywood CC-plugged or better, conforming to APA classification and U.S. Product Standard PS 1-95 or a "SELECT" or (SEL-TF) CANPLY classified exterior-grade plywood conforming to CSA-0121 standard for Douglas fir for direct-bond applications (interior, residential floors and countertops in dry conditions only)

See North American Adhesives' (NAA's) "Surface Preparation for Tile and Stone Installations" document in the Document Library section at www.na-adhesives.com.

LIMITATIONS

- Install only at temperatures between 50°F and 95°F (10°C and 35°C).
- Do not use for:
 - Application over nonporous surfaces such as waterproofing, crack-isolation and uncoupling membranes.
 - Application over hardwood flooring, particleboard, Masonite, oriented strand board (OSB), Luan, gypsum floor-patching compounds, metal or similar dimensionally unstable substrates.
 - 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.



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- 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 Mortar 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

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

- *NA 2000 Tile Adhesive* 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 EJ171, or TTMAC Handbook 09 30 00, Detail 301MJ.

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. Protect containers from freezing in transit and storage. This product is freeze/thaw-stable at temperatures down to 0°F (-18°C). However, protect all water-based products from freezing. If this material is frozen, do not stir it until it has completely thawed.
- **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%.



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| 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 |
| VOC content (SCAQMD Rule 1168) | < 65 g per L |
| Typical VOC content per SCAQMD Rule 1168 testing methods | 60 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.



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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.

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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.**