

NA 2040

Pro Tile Adhesive

Ready-to-Use Tile Adhesive



North American
ADHESIVES®



PRODUCT DESCRIPTION

NA 2040 Pro Tile Adhesive is a premium-grade, premixed organic adhesive for setting all types of ceramic tile and nonmoisture-sensitive stone up to 6" x 6" (15 x 15 cm) on indoor residential floors (light-duty traffic), countertops and ceilings, and up to 12" x 12" (30 x 30 cm) on walls in areas that are dry or with intermittent wet conditions. NA 2040 also can be used for tub and bath surrounds, and shower surrounds with precast shower bases.

USES

- Use for indoor installations of nonvitreous, semi-vitreous, vitreous and impervious mosaic tiles.
- For indoor wall tiles up to 12" x 12" (30 x 30 cm) in dry or intermittent wet areas
- For indoor floor tiles up to 6" x 6" (15 x 15 cm) in dry areas only
- Use for ceramic tile installations on floors (light residential traffic only), walls, ceilings and countertops.
- Use for shower, tub and bath surrounds where service requirements do not exceed those of ANSI A136.1, Type 1 standards.
- For use only when temperature will remain above 50°F (10°C) for at least 72 hours after installation

SUBSTRATE REQUIREMENTS

- Surface areas that will receive tile must be dry, clean and free of dust, oil, grease, tar, paint, wax, curing agents, primers, sealers, release agents and any substance or condition that may act as a bond barrier.
- All supporting surfaces must be structurally sound.

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 (at least 28 days), properly primed
- Masonry block
- Cement mortars and leveling coats
- Cement backer units (see manufacturer's instructions for approval)
- Gypsum wallboard – indoor walls in dry areas only, properly primed
- APA or CANPLY Group 1 exterior-grade plywood (indoor residential floors and countertops in dry areas)

See North American Adhesives' "Surface Preparation Requirements" document at www.na-adhesives.com.

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LIMITATIONS

- Do not use for outdoor applications, submerged conditions, steam showers or steam rooms, or where hydrostatic pressure exists.
- Do not apply over any substrates containing asbestos or over waterproofing membranes, radiant- or thermal-heated subfloor systems, gypsum-based patching or leveling compounds, sheet vinyl, vinyl asbestos tile (VAT), vinyl composition tile (VCT), existing ceramic, porcelain or natural stone, self-stick tile, laminate surfaces, fiberglass surfaces, poured epoxy floors, hardwood flooring, presswood, particleboard, chipboard, oriented strand board (OSB), Masonite, Lauan, metal or similar dimensionally unstable substrates.
- Do not use for the installation of glass tiles; moisture-sensitive tile or stone such as Rosso Levanto, Negro Marquina, or green marble tiles or their agglomerates; or other tiles with known dimensional instability when exposed to water-based setting materials.
- Do not use for setting bathroom fixtures or grab bars.
- Do not use as a grout.
- Do not use as a thick-bed mortar, concrete repair mortar, concrete patching material or skimcoating compound; or use to level subfloors.
- *NA 2040* may remain pliable under large tile. Restrict heavy loads for 14 days.

HEALTH AND SAFETY

Consult the (Material) Safety Data Sheet for safe-handling instructions.

MIXING

NA 2040 is ready to use. No mixing is required.

APPLICATION

1. Install only in temperatures between 50°F and 95°F (10°C and 35°C).
2. Select a typical notched trowel (see "Approximate Coverage" chart) with sufficient depth for at least an 85% transfer of the adhesive to the back of the tile. Trowel selection will vary depending on the tile size and thickness as well as the substrate profile.
3. Key the adhesive into the substrate with the trowel's flat side.

4. Apply additional adhesive and comb it in a single direction with the notched side of the trowel. Do not apply in a swirl pattern.
5. Spread only as much adhesive as can be tiled within 30 to 45 minutes. Any adhesive that has "skinned" over should be scraped off and replaced with fresh material.
6. Place tiles firmly into the fresh adhesive with a slight push/pull motion to ensure a positive bond.
7. Make alignments or adjustments immediately, within 30 to 45 minutes.

MOVEMENT JOINTS

- Follow recommendation EJ-171 by the TCNA.

GROUTING

- Grouting is allowed after 24 hours for walls, and after 48 to 72 hours for floors.
- The absorption rate of the tile and substrate, as well as lower substrate temperature, will directly affect and slow the drying time for all adhesives.
- Larger tiles such as 12" x 12" (30 x 30 cm) will generally take longer to reach a firm set than a 6" x 6" (15 x 15 cm) tile.

CLEANING

- Clean hands, surfaces and tools with fresh water while the product is wet. If it has dried, use mineral spirits.

PROTECTION

- Protect containers from freezing in transit and storage.
- Protect floors from foot traffic for at least 48 to 72 hours after grouting is complete.
- Restrict heavy loads on floors for 14 days.
- Walls should be protected from impact, vibrations and heavy hammering on adjacent and opposite walls for at least 14 days after installation.






Technical Quick Reference	
Product Characteristics at 73°F (23°C) and 50% relative humidity	
Color	Off-white
Packaging	Pail: 1 U.S. qt. (946 mL) Product code #204001000 Pail: 1 U.S. gal. (3,79 L) Product code #204001001 Pail: 3.5 U.S. gals. (13,2 L) Product code #204035000
VOCs (Rule #1168 of California's SCAQMD)	60 g per L
Shelf life	2 years from date indicated on original, unopened container
Open time*	30 to 45 minutes
Time before grouting*	24 hours for walls, and after 48 to 72 hours for floors

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

ISO 13007 Classification (when mixed with water)		
Classification Code	Classification Requirement	Test Results
D1 (normal mastic)	Tensile adhesion strength; tensile adhesion strength after aging	Pass
T (vertical slip resistance)	Slip \leq 0.019" (0,5 mm)	Pass
E (extended open time)	\geq 0,5 N/mm ² (after not less than 30 minutes)	Pass

ANSI Specification		
Test Method	Specification Standard	Test Results
ANSI A136.1 – shear strength (7 days)	Dry \geq 50 psi (0,34 MPa)	Pass
	Wet immersion $>$ 50 psi (0,34 MPa)	Pass
ANSI A136.1 – shear strength (28 days)	\geq 50 psi (0,34 MPa)	Pass
ANSI A136.1 – resistance to mold growth	Will not support mold growth when tested in accordance with requirements	Pass

Approximate Coverage** per 1 U.S. gal. (3,79 L)		
Tile Size	Typical Trowel	Coverage
For penny-round mosaic tile and mosaic tile measuring 3/4" (19 mm) long x 1/8" (3 mm) thick	 1/8" x 1/8" x 1/8" (3 x 3 x 3 mm)	50 to 70 sq. ft. (4,65 to 6,50 m ²)
Flat-backed tile up to 4" x 4" (10 x 10 cm)	 3/16" x 5/32" (4,5 x 4 mm)	40 to 50 sq. ft. (3,72 to 4,65 m ²)
Tile from 4" x 4" (10 x 10 cm) to 12" x 12" (30 x 30 cm)	 1/4" x 1/4" x 1/4" (6 x 6 x 6 mm)	25 to 35 sq. ft. (2,32 to 3,25 m ²)

** Trowel dimensions are width/depth/space. Coverage shown is for estimating purposes only. Actual coverage depends on substrate profile and porosity, equipment used, thickness applied, temperature and humidity. To ensure appropriate contact, proper trowel selection is mandatory (see "Application" section).

Industry Standards and Approvals	
LEED Points Contribution	LEED Points
MR Credit 5, Regional Materials***	Up to 2 points
IEQ Credit 4.1, Low-Emitting Materials – Adhesives & Sealants	1 point
IEQ Credit 4.3, Low-Emitting Materials – Flooring Systems	1 point

*** 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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**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.**