

NA 3000

Mortar Additive

Acrylic Latex Mortar Additive



North American
ADHESIVES®



PRODUCT DESCRIPTION

NA 3000 Mortar Additive is a professional-grade, acrylic latex admixture used to enhance the performance of dry-set mortars as well as NA 3500 Glass Set™ mortar. This highly recommended admixture enhances bond strength, flexural strength, elongation and freeze/thaw durability.

USES

- Interior/exterior residential and commercial installations
- Installation of ceramic and porcelain tile, quarry tile, pavers, Saltillo tile, and most types of marble, granite and natural stone

SUBSTRATE REQUIREMENTS

All surfaces must be structurally sound and clean of all substances that can impair the bond to the substrate. These include, but are not limited to, concrete sealers, curing agents, existing adhesive, dirt, wax, tar, paint and loose toppings. If the surfaces contain 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)

- Concrete (cured at least 28 days)
- Masonry cement block, brick, cement mortar beds and leveling coats
- Cement backer units (CBUs) – see manufacturer's installation guidelines
- APA and CANPLY Group 1 exterior-grade plywood (interior, residential and light commercial in dry conditions only)
- See the Technical Data Sheet (TDS) of the mortar being used for a complete listing of suitable substrates.

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

LIMITATIONS

- Install only at temperatures between 40°F and 95°F (4°C and 35°C).
- Do not use for moisture-sensitive stone (green marble, some limestones and granites), agglomerate tiles, cultured marble or resin-backed tiles. Instead, use suitable epoxy or urethane adhesives (see the respective TDSs for more information).
- Use a white mortar when installing light-colored stones and translucent marble.
- Do not use over dimensionally unstable substrates such as hardwood flooring, oriented strand board (OSB), substrates containing asbestos, or metal.

HEALTH AND SAFETY

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

MIXING

1. Into a clean mixing container, pour about 2 U.S. gals. (7,57 L) of NA 3000.
2. Gradually add 50 lbs. (22,7 kg) of a dry-set mortar powder while slowly mixing.
3. Use a low-speed mixing drill (at about 300 rpm), with an angled cross-blade mixer or double-box mixer. Mix thoroughly until the mixture becomes a smooth, homogenous, lump-free paste. Avoid prolonged mixing.

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- Let the mixture stand ("slake") for 10 minutes.
- Remix.
- If the mixture becomes heavy or stiff, remix without adding more liquid or powder.

APPLICATION

See the TDS of the mortar being used for a complete listing of application instructions.

- Choose a typical notched trowel with sufficient depth to achieve greater than 80% mortar contact to both the tile and substrate for all interior applications, and greater than 95% for exterior installations, commercial floor and wet applications. It may be necessary to back-butter tiles in order to reach these requirements. (Refer to ANSI A108.5 specifications and TCA Handbook guidelines.)
- With pressure, apply a coat by using the trowel's flat side to key mortar into the substrate.
- Apply additional mortar, combing it in a single direction with the trowel's notched side.
- Spread only as much mortar as can be tiled before the product skins over. Open time can vary with jobsite conditions.
- Place the tiles firmly into the wet mortar. Push the tiles back and forth in a direction perpendicular to trowel lines, to collapse the mortar ridges and to help achieve maximum coverage. Ensure proper contact between the mortar, tile and substrate by periodically lifting a few tiles to check for acceptable coverage.
- Remove excess mortar from the joint areas so that at least 2/3 of the tile depth is available for grouting (see ANSI A108.10 guidelines).

EXPANSION AND CONTROL JOINTS

- Provide for expansion and control joints as specified per TCNA Detail EJ171, or TTMAC Specification Guide 09 30 00, Detail 301MJ.
- Do not cover expansion joints with mortars.

CLEANING

- Clean tools and the tile while the mortar is fresh.

PROTECTION

- Store and protect the product from freezing.
- See the TDS of the mortar being used for additional instructions.

Technical Quick Reference

See the TDS of the mortar being used for performance data.

Product Characteristics at 73°F (23°C) and 50% relative humidity	
Shelf life	2 years

Industry Standards and Approvals

ISO 13007: See the TDS of the mortar that NA 3000 is mixed with.

ANSI: Exceeds ANSI A118.4 and ANSI A118.11 bond strength requirements

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.**