



**North American**  
**ADHESIVES®**

**NA 500**

# Floor Patch

**Rapid-Setting Patching Compound with Polymer**



## PRODUCT DESCRIPTION

NA 500 Floor Patch is a fast-setting, latex-fortified, sanded cement-based patching compound with high compressive strength. When NA 500 is mixed with water, floor coverings can be installed in just 1 hour after application. When mixed with the latex liquid NA 501 Floor Patch Additive, NA 500 can be used as an embossing leveler or to encapsulate cutback adhesive residue.

## USES

- For skimcoating unfinished, rough-textured concrete and approved wood underlayments
- For filling minor voids, holes and cracks in concrete and approved wood underlayments
- 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)
- When mixed with NA 501, use as an embossing leveler or as a patch to fill voids over properly prepared existing cement terrazzo, ceramic tile, vinyl composition tile (VCT), or non-cushioned, fully adhered residential sheet vinyl flooring, cutback and carpet adhesive residues.

## SUBSTRATE REQUIREMENTS

- All substrates must be structurally sound, dry, solid and stable.
- Substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, epoxy adhesives, urethane adhesives, and any other substance or condition that may prevent or reduce adhesion.
- Concrete must be free of any negative hydrostatic pressure and/or excessive moisture.

- Refer to the "Surface Preparation Requirements" document at [www.na-adhesives.com](http://www.na-adhesives.com).

## 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.

## LIMITATIONS

- Use only when the substrate and ambient temperatures are between 50°F and 100°F (10°C and 38°C).
- Do not install over substrates containing asbestos.
- Do not use as a final wear surface.
- Do not use for exterior applications.
- Do not apply over self-stick tile, presswood, particleboard, flakeboard or similar types of dimensionally unstable substrates.

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- Do not install when the moisture vapor emission rate (MVER) exceeds 8 lbs. per 1,000 sq. ft. (3,63 kg per 92,9 m<sup>2</sup>) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869). Do not exceed the flooring manufacturer's recommendations for MVER. When MVER is above 5 lbs. per 1,000 sq. ft. (2,27 kg per 92,9 m<sup>2</sup>) per 24 hours, *NA 501* is recommended for optimum performance.
- Do not install when the relative humidity (RH) exceeds 85%, when using the in-situ probe method (ASTM F2170). Do not exceed the flooring manufacturer's recommendations for RH.
- Do not use to fill existing expansion control joints.
- When leveling large areas, use as a thin application only.

## SUITABLE SUBSTRATES (properly prepared)

When mixed with water or diluted *NA 501*

- Concrete
- APA or CANPLY Group 1 exterior-glue plywood
- Other approved wood underlayments (per flooring manufacturer's recommendations)

When mixed with *NA 501* (full-strength)

- Properly prepared cutback and carpet adhesive residue
- Existing, properly prepared cement terrazzo
- Existing, properly prepared and fully bonded ceramic tile
- A single layer of properly prepared, fully bonded VCT
- A single layer of properly prepared, fully bonded, felt-backed sheet vinyl

## MIXING

Consult the Safety Data Sheet for safe-handling instructions. See the TDS for *NA 501* for detailed instructions on diluting *NA 501* with water.

Depending on the application, *NA 500* can be mixed with water or *NA 501*. Due to the short pot life of *NA 500*, it is not recommended to mix an entire bag of *NA 500* at one time.

Liquid options per 10 lbs. (4,54 kg) of *NA 500* powder

Option A, water = Add 45 to 50 U.S. oz. (1,33 to 1,48 L)

Option B, diluted *NA 501* = Add 45 to 57 U.S. oz. (1,33 to 1,69 L)

Option C, full-strength *NA 501* = Add 57 to 62 U.S. oz. (1,69 to 1,83 L)

Single-coat application – For skimcoating and filling minor voids in concrete and wood substrates, mix *NA 500* with water (Option A). For a smoother and creamier consistency, or for bonding over smooth concrete, use diluted *NA 501* (Option B).

Two-coat application – For using *NA 500* as an embossing leveler or to patch over properly prepared cement terrazzo, ceramic tile, existing VCT or existing non-cushioned, fully adhered residential sheet vinyl flooring, mix *NA 500* with full-strength *NA 501* (Option C) for the first coat. Then mix *NA 500* with diluted *NA 501* (Option B) for a second coat.

1. Some settling may occur during transportation. Dry-blend *NA 500* powder before mixing.
2. Into a clean mixing container, pour the required amount of liquid and then powder.

Note: Water temperature should not exceed 73°F (23°C). Higher water temperature will shorten pot life.

3. Do not overwater.
4. Use a low-speed mixer (at about 300 rpm) to mix for no more than 2 minutes. Mix thoroughly to a smooth, lump-free consistency.
5. Do not mix more material than can be applied within 8 to 10 minutes.
6. Avoid air entrapment and prolonged mixing, which will shorten pot life.

## PRODUCT APPLICATION

Single-coat application method

1. Select a flat-edged steel trowel.
2. Immediately apply mixed *NA 500* (Option A or Option B) to the substrate, according to the desired thickness – up to 1/2" (12 mm) for Option A, or from 1/32" to 1/4" (1 to 6 mm) for Option B. Blend the application into the surrounding area and finish to the required smoothness.
3. Allow the application to dry for at least 60 minutes, finishing it with the final floor covering chosen.

Two-coat application method

1. Select a flat-edged steel trowel.
2. First coat: Immediately apply mixture of *NA 500* and full-strength *NA 501* (Option C) to the substrate according to a desired thickness – from 1/16" to 1/8" (1,5 to 3 mm). Blend the application into the surrounding area, finishing it to the required smoothness. Allow the application to dry completely.
3. Second coat: Immediately apply mixture of *NA 500* and diluted *NA 501* (Option B) to the substrate according to the desired thickness – from 1/32" to 1/4" (1 to 6 mm). Ensure that all areas with a first coat are completely covered by a second coat. Allow the application to dry for at least 60 minutes; thicker applications may require longer drying times before the application of flooring adhesives.



## CLEANUP

Clean tools and equipment with water while product is still wet/fresh. Use mechanical means to remove any dried product.

## PROTECTION

- Provide for dry, heated storage on site and deliver materials at least 24 hours before work begins.
- Protect from traffic, dirt or dust from other trades until the final installation of the floor covering.
- Because temperature and humidity (during and after tile installation) 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%.

### Shelf Life and Product Characteristics

at 73°F (23°C) and 50% relative humidity

Pot life	8 to 10 minutes
Drying time required before floor-covering installation*	60 to 90 minutes, or once the product is completely dry
Compressive strength, at 28 days (ASTM C109)	> 3,500 psi (24,1 MPa)
Cleanability	With water while still fresh
Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C) in a heated area

\* Drying time may vary based on temperature, humidity, substrate porosity, thickness of application and jobsite conditions.

### Packaging

Product Code	Size
050025000	Bag: 25 lbs. (11,3 kg)

### Approximate Coverage\*\* per 25 lbs. (11,3 kg)

Thickness Applied	Coverage
1/32" (1 mm)	100 to 140 sq. ft. (9,29 to 13,0 m <sup>2</sup> )
1/8" (3 mm)	25 to 35 sq. ft. (2,32 to 3,25 m <sup>2</sup> )

\*\* Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to application method, substrate, substrate conditions and actual thickness applied.

### Industry Standards and Approvals

LEED v3 Points Contribution	LEED Points
MR Credit 5, Regional Materials***	Up to 2 points
IEQ Credit 4.1, Low-Emitting Materials – Adhesives & Sealants	1 point

\*\*\* Using this product may 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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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](http://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.**