



North American
ADHESIVES®

NA 650

Premium Floor Patch

**Highly Polymer-Modified Skimcoating
and Patching Compound**



PRODUCT DESCRIPTION

NA 650 Premium Floor Patch is a high-performance, highly polymer-modified, fiber-reinforced cement-based skimcoating and patching compound. Use *NA 650* to skimcoat and smooth minor surface variations and defects on common substrates. *NA 650* creates a strong, durable surface ready for almost any floor application. Its unique formulation mixes easily with water and produces an easy-to-apply patching compound. Rapid-setting *NA 650* allows for fast-track flooring installations in 30 to 60 minutes after application, depending on thickness and environmental conditions.

FEATURES AND BENEFITS

- Mixes to a smooth, easily applied consistency
- Creamy smooth texture trowels easily to create a defect-free surface
- Provides a suitable surface for applying floor-covering adhesives over
- Rapid-set: typically ready for floor-covering installation in 30 to 60 minutes
- Applies from featheredge up to 1" (2,5 cm)

USES

- For skimcoating concrete and approved wood subfloors/underlayments
- For interior residential (rental apartments, condominiums and homes)
- For interior commercial (office buildings, hotel rooms and hallways, restaurants and cafeterias)
- For interior heavy commercial (hotel lobbies, convention centers, airports, shopping malls, grocery stores and department stores)
- For interior institutional (hospitals, schools, universities, libraries and government buildings)

SUBSTRATE REQUIREMENTS

All substrates must be structurally sound, dry, solid and stable. The substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce

adhesion. Concrete must be fully cured and free of any hydrostatic and/or moisture problems. Use the in-situ probe method according to the most recent version of ASTM F2170 to determine relative humidity (RH), and/or anhydrous calcium chloride tests to determine the moisture vapor emission rate (MVER) according to ASTM F1869 as needed for the final floor finish. Concrete slabs with excess moisture (based on the requirements of the final floor finish) should be treated with a moisture-reduction barrier. Refer to North American Adhesives' "Surface Preparation Requirements" document for floor-covering installations at 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.

SUITABLE SUBSTATES (properly prepared)

- APA or CANPLY Group 1 exterior-grade plywood
- Concrete and properly prepared cement terrazzo
- Single layer of well-bonded vinyl composition tile (VCT)

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- Cutback and non-water-soluble adhesive residues
- Properly prepared ceramic tile
- Properly prepared and primed gypsum underlayments that meet the ASTM F2419 requirements for compressive strength

LIMITATIONS

- Do not install over substrates containing asbestos.
- For interior installations only
- Do not apply over self-stick tile, strip wood, particleboard, flakeboard, plank or other dimensionally unstable substrates.
- Refer to the floor-covering manufacturer regarding the maximum allowable MVER or RH.
- Use only when the substrate temperature is between 50°F and 100°F (10°C and 38°C).
- Do not use as a final wear surface.
- Do not use under moisture-mitigation systems.

MIXING

Consult the Safety Data Sheet for safe-handling instructions.

Some segregation of components may occur during transportation. Dry-blend powder before mixing.

1. Into a clean mixing container, pour 1 part of clean, cool, potable water by volume. Next, gradually add 2 parts of powder by volume while slowly mixing.
 - This equates to about 2.5 U.S. qts. (2,37 L) of water per 10-lb. (4,54-kg) bag. Do not overwater.
2. Water temperature should not exceed 73°F (23°C). Higher water temperature will shorten pot life.
3. Hand-mix or use a low-speed mixer (at about 300 rpm) to mix thoroughly to a smooth, lump-free consistency (for at least 3 minutes).
4. Do not mix more material than can be applied within 15 minutes.
5. Avoid air entrapment and prolonged mixing, which will shorten pot life.
6. Apply as soon as *NA 650* is mixed.

APPLICATION

1. Select an appropriate flat-edge steel trowel.
2. Immediately apply the mixture to the substrate, according to the desired thickness.
3. Blend into the surrounding area and finish to the required smoothness.

4. When applying *NA 650* in thicknesses greater than 1/2" (12 mm), restrict to sections of 4 feet (1,22 m) wide at a time.
5. *NA 650* must be sufficiently hardened so that applying an adhesive with a notched trowel does not damage the surface. Allow *NA 650* to dry completely before the installation of floorings that are sensitive to moisture (such as, but not limited to, wood, homogenous PVC and rubber flooring).

CLEANUP

- Clean tools and equipment with water while the product is still wet/fresh. Use mechanical means to remove cured product.



Product Characteristics	
at 73°F (23°C) and 50% relative humidity	
Color	Gray
Packaging Bag: 10 lbs. (4,54 kg)	Product code #7346405NA
Consistency of mix	Paste
VOCs (Rule #1168 of California's SCAQMD)	0 g per L
Shelf life	1 year when stored in original packaging in a dry area
Pot life / working time*	16 to 22 minutes
Initial set	20 to 30 minutes
Final set	30 to 60 minutes

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

Approximate Coverage** per 10 lbs. (4,54 kg)	
Thickness	Coverage
1/8" (3 mm)	33.3 sq. ft. (3,09 m ²)
1/4" (6 mm)	16.7 sq. ft. (1,55 m ²)

** *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.



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.**

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