



North American
ADHESIVES®

NA 655

Premium Skimcoat

Highly Polymer-Modified Skimcoating and Patching Compound



PRODUCT DESCRIPTION

NA 655 Premium Skimcoat is a high-performance, highly polymer-modified, fiber-reinforced cement-based skimcoating and patching compound. Use *NA 655* to skimcoat and smooth minor surface variations and defects on common substrates. *NA 655* 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 655* 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. See the "Surface Preparation for Tile and Stone Installations" document or "Surface Preparation for Wood-Flooring Installations" document from North American Adhesives at www.na-adhesives.com.

Tile Council of North America (TCNA) Maximum Allowable Deflection for Floor Systems and Substrates

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.



NA 655

Premium Skimcoat

SUITABLE SUBSTRATES (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)
- 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 655* 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 655* in thicknesses greater than 1/2" (12 mm), restrict to sections of 4 feet (1,22 m) wide at a time.
5. *NA 655* must be sufficiently hardened so that applying an adhesive with a notched trowel does not damage the surface. Allow *NA 655* 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.

NA 655

Premium Skimcoat

Product Characteristics	
at 73°F (23°C) and 50% relative humidity	
Color	Gray
Packaging	Bag: 10 lbs. (4,54 kg)
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 v4 Points Contribution	LEED Points
Health Product Declaration (HPD)***	Up to 2 points
Additional Green Certifications	
Living Building Challenge (LBC) Red List Free: This product has been verified per the most current Red List on the LBC's Website.	

*** *Using this product may help contribute to LEED certification of projects in the category shown above. Points are awarded based on contributions of all project materials.*

NA 655

Premium Skimcoat



North American
ADHESIVES®

MAPEI® Corporation
1144 East Newport Center Drive
Deerfield Beach, FL 33442

U.S. and Puerto Rico

Customer Service: 1-800-747-2722
Technical Services: 1-800-637-7753

© 2017 MAPEI Corporation
All Rights Reserved.
Printed in the USA.

Edition Date: June 12, 2017

Canada

1-844-410-1212

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.

PR: 8428 MKT: 17-1750

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.**