



**North American**  
**ADHESIVES®**

# Vapor Guard™ Pro

## Ready-to-Use Membrane for Subfloor Moisture Treatment



### PRODUCT DESCRIPTION

*Vapor Guard Pro* is a high-solids, fast-drying, polymer-based compound formulated to treat moisture in concrete slabs of up to 15 lbs. per 1,000 sq. ft. (6.80 kg per 92.9 m<sup>2</sup>) per 24 hours, and up to 95% relative humidity when applied in a double-coat method. It also serves to control elevated alkalinity (pH) on concrete slabs and isolate old adhesive residues in direct glue-down floor-covering applications.

### FEATURES AND BENEFITS

- Provides moisture control, adhesive encapsulation and a primer for self-leveling compounds in one product
- Seals surfaces and reduces moisture emission levels
- Alkali-resistant; acts as a pH blocker

### USES

- For use under most types of floor coverings including: carpet, carpet tile, vinyl composition tile (VCT), feltback sheet vinyl, homogeneous and heterogeneous PVC sheet, solid vinyl tile, vinyl plank, linoleum flooring, cork flooring, parquet wood flooring and glue-down engineered wood flooring
- To prime properly prepared cement or wood substrates before the application of self-leveling underlayments
- For residential (rental apartments, condominiums and homes)
- For commercial (office buildings and cafeterias)
- For heavy commercial (shopping malls, grocery stores and department stores)
- For 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 (other than carpet and cutback adhesive residues) and any other substance or condition that may prevent or reduce adhesion. All surfaces must be level, even and relatively flat. Note: If concrete contains deep voids or is highly uneven or unlevel, preliminary leveling and/or patching before the application of *Vapor Guard Pro* may be required. Contact Technical Services for product recommendations.

### SUITABLE SUBSTRATES (properly prepared)

- As an encapsulator/sealer – exterior-grade plywood, Group 1, CC type; other approved wood underlayments (per the flooring manufacturer's recommendations); concrete and cement terrazzo; cement-based self-leveling underlayments and patching compounds; and carpet and cutback adhesive residues
- As a moisture treatment and pH control – new and existing concrete, above and on grade

Consult Technical Services for installation recommendations regarding substrates and conditions not listed.

### LIMITATIONS

- Do not install over any substrates containing asbestos.
- For interior installations only
- Product can be applied over carpet adhesive residue and asphalt cutback adhesive residue as long as adhesive ridges have been completely scraped to the subfloor with only minor stains remaining. All adhesive residues must be hard, firm and well-bonded.
- Do not install when the moisture vapor emission rate (MVER) exceeds 15 lbs. per 1,000 sq. ft. (6.80 kg per 92.9 m<sup>2</sup>) per 24 hours when using the anhydrous calcium chloride test (ASTM F1869), or when the relative humidity (RH) of the concrete slab exceeds 95% (ASTM F2170). Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C).
- Product is not recommended for use if the pH is greater than 12.

# Vapor Guard™ Pro

- Do not use over pressure-sensitive, epoxy or urethane-based adhesive residues.
- *Vapor Guard Pro* is not recommended for concrete subfloors where hydrostatic pressure is seen or expected. In areas where there has been a history of flooring failures due to sporadic elevated moisture conditions, consult with Technical Services before proceeding with the installation of *Vapor Guard Pro*. *Vapor Guard Pro* is not an equal replacement for a high-performance, epoxy-based moisture-reduction barrier. All concrete slabs on grade must have an effective, functioning vapor barrier.
- Concrete slabs have the tendency to move (expand, contract, warp and shift) due to curing, temperature changes, seasonal changes, ground settlement, heavy loads, vibration and the earth's natural forces. There is no warranty against concrete slab movement or against moisture coming up through cracks and joints.
- In installations of resilient flooring and carpet with nonporous backings, do not use wet-lay adhesives or wet-lay installation methods. Use only tacky installation methods.
- Like other moisture-treatment products, *Vapor Guard Pro* is meant to treat moisture coming from below. It is not a waterproofing membrane and is not designed to protect flooring installations from water or excess moisture coming from above (as from floods, leaks and improper cleaning/maintenance procedures).
- Follow the flooring manufacturer's guidelines for climate-control settings (temperature and humidity). These conditions must be maintained by the building owner in order to ensure the overall performance and long-term success of the installation.
- All floor-covering products must be installed in strict accordance with the manufacturer's written installation instructions as well as corresponding industry standards.

## MIXING

Before product use, take appropriate safety precautions. Consult the Safety Data Sheet for safe-handling instructions.

- Ready to use; no mixing is necessary. (Settling may occur. If needed, mix until the product is smooth and consistent.)

## BOND TEST

1. In the center of the installation area, sweep and clean a 24" x 24" (61 x 61 cm) area. Apply three 2" (5-cm) strips of masking tape to the floor, overlapping them by 1" (2.5 cm).

2. Use a roller to apply a coat of *Vapor Guard Pro* to the floor, running this application up onto the tape and allowing the area to dry to the touch. Apply a second coat and allow the area to dry for 24 hours.
3. After 24 hours, carefully peel tape from the floor to the point where the tape, floor and *Vapor Guard Pro* meet. Use a scraper to test whether *Vapor Guard Pro* can be easily removed.
4. Further test the bond by applying a 12" (30-cm) strip of duct tape to the area, snatching the tape from the floor and seeing if the *Vapor Guard Pro* comes up with the tape. If *Vapor Guard Pro* cannot be scraped or peeled from the floor, there should not be bonding issues. If *Vapor Guard Pro* can be easily removed, the concrete must be mechanically abraded (sandblasted or shotblasted) in order to eliminate the sealer, curing agent and/or other bond breakers.

## APPLICATION

1. Apply with a 1/4" (6-mm) nap roller, rolling in the same direction with even and consistent strokes.
2. Allow to dry for 1 to 3 hours.
3. Apply a second coat, rolling perpendicular to the first direction. The film thickness should be 6 mils or more after the final application dries. Do not puddle *Vapor Guard Pro*.
4. Allow *Vapor Guard Pro* to dry (for at least 4 hours) before patching, applying adhesives or applying self-leveling underlayers.

Note: *Vapor Guard Pro* should be applied first before patching compounds are applied. Drying times will vary based on porosity and jobsite conditions. Adhesives and patching products will often require extended drying times when applied over *Vapor Guard Pro*.

## CLEANUP

- Clean tools with water while the product is still fresh/wet; use mineral spirits once dried.

## PROTECTION

- Protect the area from traffic and other trades until the final installation of flooring.
- Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

# Vapor Guard™ Pro

<b>Product Characteristics</b>	
at 73°F (23°C) and 50% relative humidity	
Color	Red
Packaging	Pail: 4 U.S. gals. (15.1 L)
VOCs (Rule #1113 of California's SCAQMD)	33 g per L
Polymer type	Styrene acrylic
Shelf life	1 year in original, unopened container
Percent solids	54% to 58%
Flash point (Tag)	> 200°F (93°C)

<b>Approximate Coverage*</b> per 4 U.S. gals. (15.1 L)	
<b>Application</b>	<b>Coverage</b>
Using a 1/4" (6-mm) nap roller – double-coat method on smooth concrete	600 to 800 sq. ft. (55.7 to 74.3 m <sup>2</sup> )
Using a 1/4" (6-mm) nap roller – double-coat method on rough concrete	500 to 700 sq. ft. (46.5 to 65.0 m <sup>2</sup> )

\* Coverage shown is for estimating purposes only. Actual coverage depends on substrate profile and porosity, equipment used, thickness applied, temperature and humidity.



**North American**  
**ADHESIVES®**

# Vapor Guard™ Pro



**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

© 2020 MAPEI Corporation  
All Rights Reserved.  
Printed in the USA.

Edition Date: April 29, 2020

**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](http://www.na-adhesives.com).

For information on sustainability and transparency, as well as product certification programs,  
contact Technical Services at 1-800-637-7753.

MKT: 20-1527

## 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](http://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.**