



**North American**  
**ADHESIVES®**



## Moisture Block for Wood Flooring

GOOD	BETTER	BEST
------	--------	------

### PRODUCT DESCRIPTION

A trowel-applied membrane that improves the long-term performance of glue-down wood-flooring installations

### CLASSIFICATION STANDARDS FOR SOUND REDUCTION

NA 1300 has a Sound Transmission Class (STC) rating of 66 and an Impact Insulation Class (IIC) rating of 69. Tests were performed by an independent laboratory, according to ASTM E492-04 and ASTM E989-89 for both Impact Insulation Class ratings (IIC) and Sound Transmission Class ratings (STC) per ASTM E90-04 and ASTM E413-04. Assembly consisted of 9/16" (14-mm) thick engineered wood installed over a 6" (15-cm) thick suspended concrete slab as a concrete subfloor, with a suspended ceiling.

Note: For rating details and statistics, refer to the chart "Classification Testing Detail for Sound Reduction" in this Technical Data Sheet.

### USES

- Use to protect glue-down wood-flooring installations from damage caused by moisture vapor emissions coming from the substrate.
- Use to prevent cracks transferring from the substrate to the finished floor in glue-down wood-flooring installations.
- Use to reduce airborne sounds and impact noise through the finished flooring.

### SUITABLE SUBSTRATES (properly prepared)

- Fully cured, dry concrete. Use anhydrous calcium chloride tests to determine moisture vapor emission rates (MVER) – no more than 25 lbs. per 1,000 sq. ft. (11,3 kg per 92,9 m<sup>2</sup>) per 24 hours (reference ASTM F1869).
- NAA's cement-based NA 500 fast-setting patch or NA 700 fast-drying skimcoat (over concrete and approved wood underlayments)
- Existing cement terrazzo (over concrete)
- Existing ceramic tile (over concrete)
- Existing vinyl composition tile (VCT) (one layer only, over concrete)\*
- Radiant-heat systems that have been properly installed according to the radiant-heat manufacturer's guidelines

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

\* Only engineered wood flooring is recommended when NA 1300 is applied over substrates with existing VCT.

### TECHNICAL QUICK REFERENCE

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

Application temperature	50°F to 100°F (10°C to 38°C)
Cure time before installing wood flooring†	12 to 16 hours
Flash point	> 212°F (> 100°C)
Freeze/thaw stability	To -40°F (-40°C)
Heat stability	To 160°F (71°C)
Maximum MVER of the concrete (ASTM F1869)	25 lbs. per 1,000 sq. ft. (11,3 kg per 92,9 m <sup>2</sup> ) per 24 hours
Cleanability	Cleanable only when fresh using mineral spirits and a clean white rag
Color	Yellow
Consistency	Easy to spread
VOCs	68 g/L
Weight	11 lbs. per U.S. gal. (4,99 kg per 3,79 L)
Shelf life	1 year when stored in original, unopened container at room temperature (73°F [23°C]) in a dry area
Packaging	Pail: 5 U.S. gals. (18,9 L) 3.5 U.S. gals. (13,25 L)

† Cure time will vary according to temperature, humidity, substrate/underlayment porosity and trowel size. The higher the temperature and humidity, the faster the cure.

### TYPICAL TROWEL AND APPROXIMATE COVERAGE\*

5/32" x 3/16" (4 x 4,5 mm)  40 to 45 sq. ft. per U.S. gal. (0,98 to 1,10 m<sup>2</sup> per L)

\* Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions, type of equipment used, thickness applied, handling and application procedures.

### HEALTH AND SAFETY

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

### CLASSIFICATION TESTING DETAILS FOR SOUND REDUCTION

- The Impact Insulation Class (IIC) rating measures the ability of a partition or material to block noise from impact, such as from footsteps, dropped items and moving furniture. The higher the IIC rating, the better the ability of the partition/material to reduce impact noise.
- The Sound Transmission Class (STC) rating measures the ability of a partition or material to block airborne sound, such as from voices, radio, television and music. The higher the STC rating, the better the ability of the partition/material to reduce airborne

#### Engineered Wood: 9/16" over a 6" (14 mm over a 15-cm) concrete slab

	No ceiling	Suspended gypsum ceiling
ASTM E492-04/E989-89 (IIC)	48	69
ASTM E90-04/E413-04 (STC)	52	66
ASTM E2179-03/ E989-06 (Delta IIC)	19	N/A

#### Solid Hardwood: 5/16" over 6" (8 mm over a 15-cm) concrete slab

	No ceiling	Suspended gypsum ceiling
ASTM E492-04/E989-89 (IIC)	51	N/A
ASTM E90-04/E413-04 (STC)	50	N/A

# NA 1300

## LIMITATIONS

- For indoor installations only
- Do not use unless the substrate and air temperatures are between 50°F and 100°F (10°C and 38°C).
- Wood flooring is a natural product and may be sensitive to moist or humid environments. Check with the wood-flooring manufacturer for approval before installing in bathrooms, basements or other below-grade rooms, or any other area that is prone to high humidity or moisture issues.
- Do not use NA 1300 to adhere wood flooring.
- Do not use NA 1300 in buildings prone to hydrostatic head (pressure).
- Do not use NA 1300 as a leveling, patching or repair material. Consult Technical Services for leveling or patching product recommendations.
- Do not apply directly over gypsum-based substrates or gypsum-based patching compounds.
- Electric and hydronic radiant-heat systems must be installed and encapsulated with the proper thickness of a cement-based leveling/repair product, according to the radiant-heat manufacturer's guidelines. Consult Technical Services for product recommendations.
- Refer to the wood-flooring manufacturer's instructions and wood-flooring industry standards regarding site conditions, surface preparation, installation requirements and proper conditioning of wood-flooring material.
- As a moisture-curing urethane, NA 1300 will cure when container is left open and the product is exposed to air.  
Note: Product must be used in its entirety when opened. Lid cannot be re-used after it has been removed.

## SURFACE PREPARATION

1. All substrates must be structurally sound, dry, solid, stable, level and flat. The surface should be clean and free of dust, dirt, oil, grease, paint, curing compounds, concrete sealers, loosely bonded toppings, old adhesive residues (including cutback adhesive residue) and any other substance that may prevent or reduce adhesion. If the surface contains these substances, they must be mechanically removed.
2. Check the substrate for flatness. It must be flat according to the guidelines set by the wood-flooring manufacturer.
3. Examine the substrate for imperfections and irregularities. Holes, voids, bumps, cracks, depressions, etc., on the substrate should be corrected before using NA 1300. Use NAA's cement-based NA 500 or NA 700 with water to fill holes, level and smooth as needed over concrete or approved wood underlayments. Consult Technical Services for details.
4. Complete undercuts before applying NA 1300. Include the additional 1/16" (1,5 mm) height of NA 1300 when calculating the height of the undercuts.
5. Ensure that the jobsite conditions meet the requirements set by the wood-flooring manufacturer as well as wood-flooring industry standards. The final MVER after application of NA 1300 and NA 8500 must not exceed the wood-flooring manufacturer's guidelines.

## MIXING

No mixing is required. NA 1300 is ready to use. Simply open the container and pour onto substrate.

## APPLICATION

1. Immediately spread material with the V-notched side of a 5/32" x 3/16" (4 x 4,5 mm) trowel for a thin, even coat of NA 1300, creating a consistent voidless membrane. The product will flatten and smooth itself, typically without the need for additional flat-troweling.
2. Missed spots, minor flaws and/or gaps must be corrected in order for NA 1300 to perform correctly, protect against moisture damage and be an effective crack-isolation and sound-reduction membrane. To repair these areas, the initial application must be dry. Apply NA 1300 to the affected areas with the trowel's flat side.
3. Before installing the wood flooring, allow NA 1300 to dry completely (typically 12 to 16 hours depending on temperature and humidity). To minimize damage to or contamination of the cured NA 1300, install wood flooring as soon as

possible. If NA 1300 is exposed for more than 7 days, do not install wood flooring before contacting Technical Services.

4. Use NA 8500 adhesive to install the glue-down wood flooring that has been chosen for the room or area. For details, refer to the Technical Data Sheet of NA 8500. Follow the wood-flooring manufacturer's installation instructions.

## EXPANSION JOINTS

1. Do not use NA 1300 to bridge control or expansion joints.
2. Control joints may be treated with NA 1300 to help prevent moisture damage. However, NAA does not warrant against cracks transferring through control joint locations.

## CLEANING

1. Clean the application area immediately using NA 8550 urethane adhesive Remover and a clean white rag. NA 1300 is extremely difficult to remove once it has cured.
2. Clean tools immediately with NA 8550 urethane adhesive.

## PROTECTION

1. Provide dry, heated storage on site and deliver all materials at least 24 hours before work begins.
2. Protect from traffic, dirt and dust caused by other trades until the wood flooring's final installation.
3. Do not apply any adhesive or floor-covering material before NA 1300 is completely dry.

## IMPORTANT NOTICE

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.**

For the most current product data, visit [www.na-adhesives.com](http://www.na-adhesives.com).



**North American**  
**ADHESIVES®**

MAPEI® Corporation  
1144 East Newport Center Drive  
Deerfield Beach, FL 33442  
Customer Service and  
Technical Services: 1-800-637-7753  
[www.na-adhesives.com](http://www.na-adhesives.com)

PR 5385 1300D\_C09vp  
© 2009 MAPEI Corporation. All Rights Reserved.  
Printed in the USA.