

# GREATMATS

## MI1000 Adhesive Product Specifications

MI1000 Adhesive is a premium acrylic adhesive that combines excellent performance with environmental safety. MI1000 can be used either as a wet-set or semi-dry adhesive, depending upon the porosity of substrate. It is non-flammable, non-hazardous and water resistant providing a strong, long lasting bond designed for the installation of specific products.

**Note:** ASTM documents are available from [www.astm.org](http://www.astm.org).

<b>Concrete Moisture Limits</b>	90% RH used Wet-set over a porous substrates only.
	90% RH used Semi-dry over non-porous substrates.
	95% RH used Semi-dry over a porous concrete subfloor only.

Test following the protocol of ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes, the results must not exceed the published limits.

**Note:** All on or below grade concrete subfloors must have a confirmed effective vapor retarder pre-installed underneath that meets the requirements of ASTM E1745 Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs. If not then use a moisture mitigation system that conforms to ASTM F3010 Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings. This system must be applied following the manufacturers written instructions. Leveling or patching may then be required, to meet the leveling or smoothing requirements.

<b>Trowel &amp; Coverage</b>	150 - 175 sq ft / gallon.
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1/16-inch by 1/16-inch by 1/16-inch V-notched trowel (FCA) ~ 150 - 175 sq. ft. / gallon depending on substrate. This may change if a different trowel notch is required for the flooring, always check the flooring documents first.

<b>VOC Limits</b>	< 4 grams per liter.
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The VOC content is < 4 grams per liter. A verified third party FloorScore® certificate is available.

<b>Freeze Thaw</b>	5 cycles at 20°F
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MI1000 Adhesive is freeze thaw stable for 5 cycles at 20°F

<b>Cure Time</b>	72 hours.
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Approximately 72 hours to fully cure depending on the porosity of the substrate and site conditions.

<b>Storage</b>	40°-95°F.
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Store in dry conditions with the temperature between 40°-95°F.

<b>Shelf Life</b>	One year, unopened.
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One year in unopened, stored in cool and dry conditions

## MI1000 Adhesive Product Specifications - continued

<b>Open Time</b>	Up to two (2) hours, after the applied adhesive turns clear. Depending on site conditions; however, the flooring must be installed within a maximum of two (2) hours.
<b>Restrictions</b>	See SDS and Warning (below) As detailed in the Safety Data Sheet (SDS) and the flooring Installation Instructions.
<b>Packaging</b>	One (1) or four (4) gallon units. Clean pails are recyclable.
<b>Clean Up</b>	Remove wet adhesive immediately with a clean damp cloth. Use 70% Isopropyl Alcohol with a clean cloth to remove dried adhesive. <b>Warning:</b> Isopropyl Alcohol is flammable. Read and follow all precautions on container label.
<b>Warranty</b>	The length of the limited warranty is defined by the installed flooring which must have MI1000 Adhesive listed and be installed and maintained according to the flooring product documents. No warranty is offered under any other circumstances.
<b>LEED v4</b>	
<b>Information</b>	Many finishing products have the potential to contribute points to LEED v4, however the credits can only be gained when calculating the combined performance of all the products used on a particular LEED project; therefore no single product can guarantee you will obtain LEED v4 credits. MI1000 Adhesive may contribute to the following LEED credits (points), the following is based on LEED NCv4:
<b>v4 EQc2: Indoor Environmental Quality – Low emitting materials:</b>	<input type="checkbox"/> Option 1 (Adhesives). Verified third party FloorScore® certificate for MI1000 Adhesive is available. <input type="checkbox"/> Option 2. Budget Calculation Method.
<b>Subfloor Preparation</b>	
<b>Recommendation</b>	Document each process of the installation with video or photographs.
<b>Concrete Subfloors</b>	Unless stated otherwise, all concrete subfloors must be prepared in accordance with ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring. The substrate must be clean (without contaminants), structurally sound and smooth enough for the flooring and end user. When required, use only commercial grade leveling or patching compounds with ≥ 3000 psi that also meet the moisture requirements of the subfloor. All on or below grade concrete subfloors must have a confirmed effective vapor retarder pre-installed underneath that meets the requirements of ASTM E1745 Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs. If not then use a moisture mitigation system that conforms to ASTM F3010 Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings. This system must be applied following the manufacturers written instructions. Then meet the flooring level or smoothing requirements.

## MI1000 Adhesive Product Specifications - continued

### Porosity

The subfloor must be tested for porosity according to ASTM F3191 - Standard Practice for Field Determination of Substrate Water Absorption (Porosity) for Substrates to Receive Resilient Flooring.

**Note:** The water droplet must be absorbed within 5 minutes to be considered porous.

### Concrete Moisture Testing

Testing must be performed in accordance with the current ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes. The results must not exceed the following:

- 90% RH used Wet-set over a porous substrates only.
- 90% RH used Semi-dry over non-porous substrates.
- 95% RH used Semi-dry over a porous concrete subfloor only

**Note:** Diamond grinding (or similar) the concrete surface open to make it porous is acceptable. If they do then use an ASTM F3010 Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings, compliant mitigation system or wait for it to dry sufficiently. Then meet the flooring level or smoothing requirements.

### Warning

The Occupational Safety and Health Administration (OSHA) has exposure limits for those exposed to respirable crystalline silica; these limits must be followed. All Safety Data Sheets (SDS) and Warranty requirements must be read, understood and followed. All local, state and federal regulations must be followed. This includes but is not limited to the removal of in-place asbestos-containing material.

### Wooden Subfloors

Unless stated otherwise all wooden subfloors must be prepared in accordance with ASTM F1482 Standard Practice for Installation and Preparation of Panel Type Underlayments to Receive Resilient Flooring. The substrate must be clean (without contaminates), dry ( $\leq 8\%$  moisture content) and structurally sound and smooth enough for the project.

Wood floors must be double layer construction with a minimum total thickness of 1". The subfloor must be rigid, free from movement, and have at least 18" of well-ventilated air space below. Sleepers must not be directly in contact with concrete or earth and the ground beneath the subfloor must be covered by a suitable vapor retarder. Do not install directly over Masonite TM, Luan, fire retardant products, particle or chip board.

### Gypsum Subfloors

Unless stated otherwise all gypsum subfloors must be prepared in accordance with ASTM F2678 Standard Practice for Preparing Panel Underlayments, Thick Poured Gypsum Concrete Underlayments, Thick Poured Lightweight Cellular Concrete Underlayments, and Concrete Subfloors with Underlayment Patching Compounds to Receive Resilient Flooring.

### Other Subfloors

For all other subfloor/substrates contact Greatmats Customer Service.

### Conditions

Areas must be enclosed weather tight and properly conditioned at a constant ( $\pm 5^{\circ}\text{F}$ ) service temperature that is between  $60^{\circ}\text{F}$  and  $80^{\circ}\text{F}$  with an ambient relative humidity between 35% - 65%. In addition, the substrate surface must be at least  $5^{\circ}\text{F}$  above dew point for 72 hours prior to, during, and for 48 hours after the installation.

**Note:** Dew point calculators are available on the web. Windows, etc. must be covered during and for 48 hours after installation.

# MI1000 Adhesive Product Specifications - continued

## Application Instructions

### Application Methods

Follow the product-specific Installation Instructions regarding layout, trowel notch and installation. The adhesive must be applied at an angle of approx. 60° using the correct trowel to the prepared substrate without voids or puddles. Do not make any sharp turns with the trowel to avoid an uneven application of the adhesive. Do not re-notch trowels; replace them as required.

**Wet-set:** Providing the substrate is porous and humidity levels are correct, the flooring may be correctly placed into the adhesive after approx. ten minutes of open time, depending on site conditions.

**Semi-Wet:** When the substrate is non-porous, allow the adhesive to become dry to the touch, then immediately and correctly place the flooring into the adhesive. The timing will depend on the humidity levels and porosity of the substrate.

**Important:** Install the flooring into the exposed adhesive within two (2) hours after it has become “Semi-dry” or “Dry-to-the-touch” and do not allow the adhesive to become contaminated with dust or anything else or remove the adhesive and apply fresh adhesive.

### Rolling

Roll the flooring immediately after placement using a three section 100 lb. roller, slowly and in both directions (width first) and repeat as necessary to ensure both the removal of all air pockets and transfer of the adhesive.

### Finish

Clean up all debris, take photographs, then protect the flooring from traffic and have the end user or representative sign a “Job Completion Ticket”.

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