MI 1500 Adhesive

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General Information

MI 1500 Adhesive is a premium, polymer enhanced, acrylic adhesive that combines excellent performance with environmental safety. It is non-flammable, non-hazardous and water resistant providing a strong, long lasting bond and has been specifically engineered for the installation of Mats Inc. wineo PURline bio-polyurethane commercial flooring products. Refer to the flooring product documentation for specific installation requirements prior to use, available at www.matsinc.com. MI 1500 Adhesive allows for fast and efficient ease of use throughout the flooring installation process. This user-friendly adhesive is ideal for Mats Inc. wineo PURline bio-polyurethane planks, tiles and sheet goods. Ideal for heavy rolling loads (hospital beds, furniture, etc.). This unique formulation is formulated for a dry-set installation method; it dries quickly, has excellent resistance to moisture and alkali, provides a long open time, is easy to clean up, and exhibits extremely low-odor.

This product must be used for interior applications only, and must be used only by professional commercial flooring installers that have sufficient professional liability insurance coverage (aka Errors and Omissions Insurance) for the project.

All Safety Data Sheets (SDS) and installation, maintenance and warranty requirements must be read, understood and followed.

These instructions supersede any verbal or written instructions from Mats Inc. representatives, and must be followed in order for the limited warranty to be in effect.

Technical Data

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<th>Composition</th>
<th>Polymer latex</th>
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<tr>
<td>VOC</td>
<td>&lt;1 g/L</td>
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<tr>
<td>Limited warranty</td>
<td>Equal to the warranty years of the Mats Inc. flooring, provided MI 1500 is listed in the product documentation. No warranty is provided under any other circumstances.</td>
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<th>Adhesive</th>
<th>Moisture Limits</th>
<th>Application Method</th>
<th>Coverage</th>
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<td>MI 1500</td>
<td>≤ 90% RH existing concrete slab ≤ 99% RH for newly poured concrete with declining moisture levels and an intact vapor shield beneath the slab</td>
<td>1/16&quot; x 1/32&quot; x 1/32&quot; U-Notch Trowel (FFA)</td>
<td>~ 225 - 250 foot² / gallon</td>
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Tested following the protocol of ASTM F2170, the results must not exceed the published limits. Replace all trowels every 3.5 gallons to ensure proper spread rate; do not re-notch. Check the expiration date of the adhesive, if expired, do not use. The use of any unapproved adhesive will void the limited warranty.

It may not be the flooring contractor’s responsibility to conduct moisture testing. It is, however, the flooring contractor’s responsibility to make sure these tests have been conducted and that the results are acceptable prior to installation. Testing should be performed by an International Concrete Repair Institute (ICRI) certified technician; please visit http://www.icri.org.

All on or below grade concrete subfloors must also have a confirmed effective vapor retarder pre-installed underneath that meets the requirements of ASTM E1745. If not, then use a moisture mitigation system that conforms to ASTM F3010. This system must be applied following the manufacturer’s written instructions.
LEED v4

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. MI 1500 may contribute to the following LEED credits (points), the following is based on LEED NCv4:

v4 EQc2: Indoor Environmental Quality – Low emitting materials:
   Option 1 (Adhesives). Verified third-party Green Label Plus is available.
Subfloor Preparation

Document every process of the testing, preparation and installation with video or photographs.

Floor must be clean, smooth, dry and free of any foreign matter that would interfere with a good bond. Existing adhesive must be removed by mechanical means. Do not use solvents or liquid adhesive removers. Fill all cracks and depressions with a suitable cement based floor patch and/or underlayment. Best practices for cleaning typically include vacuuming and damp mopping. The substrate, adhesive and flooring must be acclimated in an enclosed building with the HVAC operational between 60°-90°F (15°-32°C) and between 30-65% relative humidity, for at least 72 hours before, during and after installation.

Warning
The Occupational Safety and Health Administration (OSHA) has exposure limits for people exposed to respirable crystalline silica; these limits must be 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. Do not install over a chemically abated subfloor, contact the technical department first.

Storage, Conditions & Acclimatization

Storage
Store at a moderate room temperature. Protect adhesive from freezing. Maximum of 1 year from date of manufacture in unopened container.

Conditions
The conditions of the project and on-site storage area must be at a constant (± 5°F) service temperature, that is also between 68°F and 80°F with ambient relative humidity between 35% - 65% for at least 48 hours before acclimatization begins and for 72 hours after installation. The substrate must also be at least 5°F above the dew point.

Moisture resistant up to 99% RH for newly poured concrete with declining moisture levels and an intact vapor shield beneath the slab. 90% over existing concrete slabs. If required, use only moisture resistant patching or leveling compounds.

Acclimatization
Although adhesive may be used when ambient or surface temperatures are between 60°F-90°F (16°C-32°C), always follow temperature, acclimation and installation guidelines for the flooring being installed.

The substrate, adhesive and flooring must be acclimated in an enclosed building with the HVAC operational between 60°-90°F (15°-32°C) and between 30-65% relative humidity, for at least 72 hours before, during and after installation.

Installation

90% RH for existing concrete slabs, 99% RH for newly poured concrete with declining moisture levels and an intact vapor shield beneath the slab when tested following the protocol of ASTM F2170.

Apply MI 1500 Adhesive using a 1/16-inch x 1/32-inch x 1/32-inch U-Notch trowel (FFA). The adhesive must be applied holding the trowel at an angle of approximately 60° 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. Replace trowels every 3.5 gallons to ensure proper spread rate; do not re-notch.

Heat Welding Process
Heat welding is not permitted until the adhesive is cured sufficiently. MI 1500 must have least one (1) hour cure time before heat welding.

Finish Installation
Clean up all debris, take photographs and, if required, protect the flooring from traffic and have the end user or representative sign a "Job Completion Ticket".