

## MI 3000 Polyurethane Adhesive Product Specifications

### Description

MI 3000 PU is a premium two-part reactive urethane flooring adhesive with low volatile organic compounds (VOCs). This adhesive aggressively adheres to properly prepared substrates and all recommended products, please refer to the installation instructions for confirmation.

### Recommendation

Excellent for use in occupied areas: schools, hospitals, multi-family units, commercial buildings, such as offices, shopping malls, department stores, and sports and fitness facilities, and areas with heavy traffic and rolling loads, such as wheelchairs and carts.

### Suitable substrates

The adhesive will bond successfully to most substrates; however, substrates must be structurally sound, dry, solid and stable.

### Requirements

All on and below grade concrete subfloors require a confirmed effective vapor retarder. The vapor retarder must have a low permeance ( $\leq 0.1$ ) having a minimum thickness of 10 mils, or it must meet ASTM E1745 Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs. If this is not possible, use a topically applied 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.

Moisture testing is mandatory following the protocol of ASTM F2170 – Standard Test Method for Determining Relative Humidity in Concrete Slabs using in situ Probes. The results must not exceed 85%RH.

Refer to the Safety Data Sheet (SDS). It must be read, understood and followed including using all appropriate safety equipment, such as rubber gloves, safety glasses, etc.

### Mixing

Wear rubber gloves and avoid skin contact during mixing, application and cleaning. Parts A and B are packaged to exact quantity ratios for maximum performance. Protect flooring from adhesive spills.

Pour all material out of the Part B (liquid) container into Part A (paste). Place the cap back on the Part B container and turn the container upside-down to ensure that all remaining material drains into the cap. Pour the remaining material into Part A. Always mix complete units. Do not add other materials to this mixture.

Use a low-speed mixer to ensure that the material is mixed thoroughly to a smooth, homogenous paste consistency (generally within 3 minutes). Do not allow the mixed product to sit in the container. Immediately after mixing, apply the adhesive to the substrate.

Wash all tools with mineral spirits immediately after mixing. Once cured, MI 3000 PU can be removed only by mechanical means.

### Application

Refer to the product installation instructions for recommendation regarding the proper trowel notch and usage to ensure 100% coverage of the flooring material's backing.

Do not spread more adhesive than can be covered with floor covering within 40 minutes. After spreading the adhesive, immediately install the flooring material into the adhesive while it is still fresh. Periodically lift the material to confirm proper adhesive transfer to the backing. Note: The floor temperature directly affects setting time. The warmer it gets, the faster the adhesive sets; the cooler it gets, the slower the adhesive sets.

Roll the flooring surface across the width and length with a heavy (100 lb.) roller to break down adhesive ridges and ensure complete removal of trapped air. Pull (rather than push) the roller, so that footprints are not left on the floor.

Complete the installation per the flooring installation instructions. Because the initial grab of MI 3000 PU is low, it is sometimes necessary to apply weights, particularly at the seams, to maintain contact until the adhesive sets.

### Cleanup

While the adhesive is still fresh, promptly use mineral spirits to clean adhesive smudges from the flooring material's surface and the tools. Once cured, the adhesive can only be removed by mechanical means.

### Protection

Do not walk on the flooring until 12 hours after installation. If walking on the floor is necessary before this time, lay plywood boards across the floor to disperse the load. Movement of the flooring while the adhesive is setting may affect the bond. Do not allow heavy traffic until 72 hours after installation.

### Adhesive properties

Polymer type	Epoxy modified polyurethane
Percent solids	90% - 100%
VOCs (Rule #1168 of California SCAQMD)	36 g/L
Pot Life	60 minutes
Trowelability	Light, easy
Density	11.1 ± 0.8 lb. per U.S. gal. (1.33 ± 0.1 g per mL)
Consistency	Creamy
Color	Off-white
Shelf life	2 years when stored in original packaging at 73oF (23oC)
Storage conditions	40°F to 100°F (4°C to 38°C)
Flash point - Part A and Part B	> 200°F (93°C)
Protect from traffic	24 hours for light traffic, 72 hours for heavy traffic
Open time	0 minutes
Working time	0 - 80 minutes
Unit size	1 U.S gals. (3.78 L)

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.

Trowel size	Coverage
1/16" x 1/16" x 1/16" square notch (FCA)	125 to 185 sq. ft. per U.S. gal. (3,06 to 4,53 m2 per L)
1/32" x 1/16" x 1/32" U notch (FFA)	185 to 245 sq. ft. per U.S. gal. (4,53 to 6,0 m2 per L)

Trowel dimensions are depth/width/space. Coverage's shown are for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions, type of trowel used and setting practices.

**LEED v3**

IEQ Credit 4.1	Low-Emitting Materials (Adhesives)	For 1 point: low-emitting adhesive with a VOC of 70 g/L or less (36 g/L)	MI 3000 PU is Green Label Plus® Certified
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MR Credit 5	Regional Materials	Product must be produced within a radius of 500 miles to qualify.	Manufactured in Dalton, GA, USA
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**LEED v4**

Indoor Environmental Quality (IEQ)	Low Emitting Materials (Adhesives)	For up to 3 points: achieve threshold emission compliance for the required number of product categories or using the budget calculation method.	MI 3000 PU is Green Label Plus® Certified
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