

## Specification

## M-Guard V-88 Adhesive Specification

### DESCRIPTION

Mannington M-Guard V-88 is an advanced, cross-linking, moisture resistant transitional pressure sensitive adhesive featuring high aggressive peel and shear strength. This solvent-free, non-flammable, easy troweling product provides excellent bond for installations of luxury vinyl plank and tile (Color Anchor LVT, Divergent, Mannington Select, Nature's Paths, Primary Elements, Uninterrupted, Walkway and Walkway 20) and homogeneous and heterogeneous resilient sheet (Assurance III, BioSpec MD, BioSpec RE, BioSpec SR, City Hub, Color Anchor Sheet, Discovery, Entwined, Paradigm II, Realities II and Vivendi II) over both porous and non-porous surfaces.

### FEATURES

- Easy application
- VOC-compliant/solvent free/low odor
- Non-flammable
- Contains fungicide protection
- Readily identifiable mylar chips
- Complies with SCAQMD Rule 1168
- Meets Green Label Plus Certification

### DIRECTIONS

The substrate must be structurally sound, smooth, clean, level, dry, and free of dust, dirt, grease, oil, paint, marker, incompatible curing compounds or sealers, fire retardant chemicals, release agents or any other foreign substance that might interfere with a good bond. The adhesive, floor covering and area to receive flooring must be maintained at a temperature of 65-85°F (18.3-43.1°C) and at a relative humidity of 30-60% for at least 48 hours before, during and after installation.

**Luxury Vinyl Plank and Tile:** No Moisture Testing Required for using Mannington M-Guard V-88 Adhesive with luxury vinyl plank and tile provided the slab meets ASTM F710 including the presence of an intact moisture vapor retarder per ASTM E1745 (Class B Minimum), is in direct contact with the concrete slab, no standing water, no free liquids present, no evidence of moisture staining, and no hydrostatic pressure. PH testing is required with a limit of 12.

For all other condition's or when the above requirements are not met, the Mannington M-Guard V-88 Adhesive limits are in-situ relative humidity (maximum RH 95% per ASTM F-2170) and/or moisture vapor emissions (maximum 10 lbs./1,000 SF/24 hrs. per ASTM F-1869). Concrete must have a pH of 12 or less per (ASTM F-710).

**Resilient Sheet:** The maximum moisture level of newly constructed concrete must be no greater than 10 lbs as determined by a calcium chloride test according to ASTM F1869 method and/or 95% RH as determined by ASTM F2170 in situ relative humidity test. The pH limit is 12. Maximum moisture levels for renovations or older slabs must not exceed 8 lbs MVER, 90% RH and 10pH.

Mannington M-Guard V-88 is not designed to be used over floors with Moisture Vapor Emissions (MVE) from water of intrusion or hydrostatic pressure. M-Guard V-88 is designed for new slabs with high vapor emission from the water of hydration, or initial mixing. M-Guard V-88 is not to be considered for remedial solutions to concrete subfloors with a

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history of moisture problems. When installing Resilient Sheet with M-Guard V-88 over slabs that do not have a vapor retardant membrane properly placed, the limits are 90% RH, 10 MVER and 8 PH.

### **SUBFLOOR POROSITY**

Before starting the flooring covering installation, check the porosity of the substrate by performing a water droplet test per ASTM F3191. This will help aid in choosing the correct trowel size and adhesive application. Use a pipette water dropper or straw to apply a small drop of water onto a clean, prepared surface. Allow one minute for the water to penetrate the top layer of the substrate. If the droplet of water does not penetrate the surface within one minute, it would be considered a non-porous substrate. Check for recommended trowel size and application rate.

### **INSTALLATION - POROUS SURFACES**

**Luxury Vinyl Plank and Tile:** Mannington M-Guard V-88 may be used either wet or as a pressure sensitive adhesive over porous surfaces. To use wet, apply adhesive with the recommended notch trowel and allow to flash off for 5-10 minutes before installing plank or tile flooring. Lay plank or tile into wet adhesive according to instructions. Adhesive must transfer to floor product to ensure proper bond. To use as a pressure sensitive adhesive, allow to dry to a tacky state and then plank or tile install flooring according to instructions within 3 hours.

**Resilient Sheet:** Apply Mannington M-Guard V-88 adhesive with the recommended notch trowel and allow to flash off for 5-10 minutes before installing resilient sheet flooring. Lay resilient sheet into wet adhesive according to instructions. Adhesive must transfer to floor product to ensure proper bond. NOTE: When installing resilient sheet flooring using M-Guard V-88, trowel the adhesive then back roll with a short-nap paint roller to minimize the possibility of trowel ridge telegraphing.

### **INSTALLATION - NON-POROUS SURFACES**

**Luxury Vinyl Plank and Tile:** Apply Mannington M-Guard V-88 adhesive with the recommended notched trowel, allow to dry completely from yellow to tan, and lay in the plank or tile according to instructions within 3 hours. The highly aggressive pressure sensitive grip prevents slippage and minimizes seam gaps. Drying time is 45-90 minutes and will vary depending on temperature and humidity. Installation over areas of incomplete drying can result in job failure.

**Resilient Sheet:** Apply Mannington M-Guard V-88 adhesive with the recommended notched trowel, then back roll with a short-nap paint roller to minimize the possibility of trowel ridge telegraphing. M-Guard V-88 adhesive must be allowed to set up until the adhesive becomes tacky to the touch. The adhesive must be tacky enough to transfer to the back to assure proper bond and not allow movement of the resilient sheet during placement. The proper adhesive time window can be determined by applying pressure with a finger or a small flooring scrap, checking for "transfer," prior to install. Immediately lay the resilient sheet flooring into the adhesive and roll with a 100 lb sectional roller.

### **TROWEL SIZE/COVERAGE**

**Porous Surfaces:** 1/16" x 1/32" x 1/32" U-notched trowel, up to 250 sq. ft. per gallon

**Non-porous surfaces:** 1/16" x 1/32" x 5/64" U-notched trowel, up to 350 sq. ft. per gallon

\*Trowel dimensions are width x depth x spacing.

### **.FINISHING**

After the floor covering has been placed in the adhesive, roll the floor covering immediately with a minimum 100 lb (45 kg) roller to ensure complete contact with the adhesive. Remove any adhesive from the face of the floor covering with a cloth moistened with denatured alcohol. The finished floor should be protected from point loads and heavy traffic for 24 hours after installation. The floor covering may be damp-mopped 24 hours after installation.

## **Crafted with Purpose®**

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### **PACKAGING**

Sizes: 1 Gallon / 4 Gallon

SAP Code: 295457 / 186054

Order Code: 804588 / 802387

### **STORAGE**

Store in climate controlled interior locations. Shelf life one year on unopened containers.

### **PRECAUTIONS**

- Use with adequate ventilation
- Do not use where excessive moisture, alkali, or hydrostatic pressure exists
- Prevent prolonged breathing of vapor and skin contact
- Avoid contact with eyes
- Do not ingest
- KEEP OUT OF THE REACH OF CHILDREN

### **WARRANTY**

This product is manufactured according to exacting quality control standards and is warranted to be free from manufacturing defect for a period of one year. Mannington flooring products are backed by a limited Commercial Warranty for bond and manufacturing defects. The warranty term matches the product warranty which will vary by product type.