

# MANNINGTON COMMERCIAL

## PRODUCT SPECIFICATION SHEETS

### M-Guard V-68 Ultra Premium Commercial Adhesive

For use with Mannington Commercial Homogenous and Heterogeneous vinyl back sheet products and Luxury Vinyl Tile (LVT) and Luxury Vinyl Plank (LVP) products

- Warranted over concrete slabs with up to 8 pounds moisture vapor emissions
- Contains antimicrobial protection
- High solids
- Excellent water and alkali resistance
- Solvent free – low odor

#### DESCRIPTION

Mannington Commercial V-68 Adhesive is an ultra premium, high moisture resistant adhesive. This product was specially developed for the installation of a broad range of Mannington Commercial vinyl back products over most porous substrates. Mannington Commercial V-68 is recommended for use over concrete slabs with vapor emission rates of up to eight pounds per ASTM F1869, or insitu relative humidity readings of up to 80% per ASTM F2170 without any further moisture vapor remediation. Mannington Commercial V-68 is formulated with a proprietary blend of biocides that help protect the adhesive from the growth of mold, mildew, and bacteria in both the wet and dry state.

**Mannington Commercial V-68 is not designed to be used over floors with Moisture Vapor Emissions (MVE) from water of intrusion or hydrostatic pressure. It is designed for slabs with high vapor emission from the water of hydration.**

#### TECHNICAL DATA:

- FREEZE-THAW STABILITY: Stable above +10°F or 12.2°C up to 5 cycles. Protect from freezing. DO NOT STORE OUTDOORS. If frozen thaw completely at room temperature. Determine suitability of the adhesive before attempting to complete the installation.

- SHELF LIFE: Minimum 1 yr. at 70°F
- TACK TIME: use wet installation method
- COLOR: White
- PACKAGING: 4 Gallon Pails
- LIMITATIONS: Do not expose newly covered floors to heavy traffic for 72 hrs.

#### USE OVER:

Porous substrates including plywood or wood composition panels, patching and self-leveling compounds, cement terrazzo that has been made porous by grinding, and concrete (on, above and below grade in the absence of excess (greater than 8 lbs MVER) moisture. All sealed or nonporous concrete must be made porous by grinding or sanding, before the application of the adhesive. Mannington Commercial V-68 is not recommended over nonporous substrates. Check concrete slabs for porosity by placing dime to quarter size drops of water in several locations throughout the slab, if the water begins to soak into the concrete within 30 minutes your slab is porous enough for floor covering installation with Mannington Commercial V-68. Apply adhesive, roll **immediately** with short nap roller, and lay floor covering immediately into adhesive. **Do not let the adhesive skin over.** Roll with a 100 pound roller to ensure a good bond.

All concrete slabs on, or below grade must have a functioning vapor barrier directly under the concrete slab. The vapor barrier must always be on top of the capillary break. (All concrete slabs must be thoroughly cured and free of curing agents, excessive alkali and moisture, etc.)

#### MOISTURE TEST:

Perform testing for moisture vapor emissions per the anhydrous calcium chloride test method ASTM F1869, or use the Insitu Relative Humidity test method ASTM F2170. Also test for

excess alkalinity before applying adhesive and floor covering. If moisture vapor emission rates are higher than **eight pounds**, or insitu R.H. is over **80%** additional time must be provided to allow the moisture to escape. If the pH is higher than 10.0, it must be neutralized by rinsing with a mild solution of muriatic acid and then the slab must be rinsed thoroughly and retested after 24 hours to verify suitability.

**Do not install floor covering over concrete surfaces that exceed these recommended limits.**

#### CLEANUP:

Excess fresh adhesive should be removed immediately with soapy water and a damp cloth. If the adhesive dries, a white cotton cloth dampened with a safety solvent.

#### RECOMMENDED TROWEL AND APPROXIMATE COVERAGE:



Short 3/16" nap roller is to be used to smooth the adhesive immediately after it has been applied with the proper trowel to provide a uniform adhesive film. (Pre-wet the roller with adhesive before rolling begins)

**1/16 X 1/32 X 1/32**

Up to 200 square feet per gallon

Over prepped nonporous surfaces. Prepped nonporous surfaces are rendered porous by means such as grinding.

**1/16 x 1/16 x 1/16**

Up to 150 square feet per gallon  
Over porous surfaces.

(Continued)  
Page 1 of 2  
08-15-2008

PO Box 12281  
Calhoun, GA 30703-7004  
telephone 706 629 7301  
facsimile 706 629 2171  
web www.mannington.com

#### CAUTION:

Use adequate ventilation. Avoid prolonged breathing of vapors. After using, be sure to wash your hands thoroughly, particularly before eating. May cause skin and eye irritation. Avoid contact with skin and eyes. Keep container closed. Thoroughly wash exposed area with soap and water. Eyes: flush with large amounts of water, lifting upper and lower lids occasionally; call a physician immediately. Ingestion: Do not induce vomiting. Call a physician immediately. **KEEP OUT OF REACH OF CHILDREN. [Refer to Material Safety Data Sheet (MSDS) for further information.]**

#### DIRECTIONS

##### Preparation:

For proper results when installing floor coverings with Mannington Commercial V-68 always climatize the adhesive, floor covering, and installation area. At a minimum, store the adhesive, and the floor covering at the job site for at least 48 hours with the job site environment at a **minimum of 65°F** and maximum 100° F, and a relative humidity of between 45% and 65%.

Area to be covered must be clean, sound, dry and free of any foreign matter that would interfere with a solid bond. Level any high spots, and fill all cracks, holes and minor depressions with a suitable underlayment or floor patch, otherwise irregularities can "telegraph" through the new surface.

##### APPLICATION:

Mannington Commercial V-68 has been specially formulated to act as both an ultra premium resilient flooring adhesive, and also to function as a moisture vapor emissions retarder. This adhesive can be used over concrete slabs with up to **8 pounds of MVE per ASTM F1869 or up to 80% R.H.** per ASTM test method F2170 without any further moisture vapor remediation. Mannington Commercial V-68 is a firm setting, wet-install, acrylic based adhesive that is an excellent choice for all types of vinyl back resilient floor covering products.

Install flooring products into the Mannington Commercial V-68 while it is still wet, do not allow adhesive to skin over. All substrates must exhibit some amount of porosity, with the ability to absorb water topically, otherwise the adhesive will not set-up and cure. Mannington Commercial V-68 acts as an adhesive as well as a MVE reducer, therefore all applications require the adhesive to be troweled on the substrate, and then **immediately** rolled with a short (3/16") nap paint roller, (pre-wet the roller with adhesive before rolling begins). The trowel acts as a meter to ensure the proper amount of adhesive is used, and the roller spreads the adhesive to make a consistent film over the surface of the substrate.

Once the adhesive is nap rolled, lay floor covering into the wet adhesive immediately, this will ensure good transfer. **Do not let the adhesive skin over.** Then roll the entire floor with a 100 pound three-section floor roller. Roll the floor while the adhesive is still soft and wet underneath the flooring this will ensure good bonding. Seal seams where appropriate, and restrict to light traffic for 24 hours. Restrict from heavy traffic for 72 hours. If seam contamination occurs, extend open time or reduce trowel size.

**WARNING! Do not sand, scrape, abrade, chip, pulverize, or demolish existing resilient tile, sheet flooring, backing, lining felt, adhesive, or adhesive residue. These products may contain asbestos fibers that are not readily identifiable. Avoid creating dust. Inhalation of asbestos dust may cause asbestosis or other serious bodily harm. If old floors must be removed, consult and follow the recommended work practices of the resilient flooring manufacturers.**

##### WARRANTY:

Mannington warrants the adhesive against manufacturing defects as follows:

**BOND** – Mannington hereby warrants that Mannington Commercial V-68 adhesive will provide suitable adhesive bond when installed over surfaces

with moisture vapor emissions of up to 8 pounds per ASTM- 1869 or 80% RH per ASTM F-2170.

**CONDITIONS** – This warranty shall not be effective, unless the following conditions are satisfied. The bond created by Mannington Commercial V-68 adhesive is warranted to be free of defect in material and workmanship for 5 years on recommended Mannington Commercial sheet and 10 years on Mannington recommended Luxury Vinyl Tile from the initial installation date, provided:

- 1) The substrate is suitably prepared according to Mannington's Installation Handbook.
- 2) Mannington Commercial V-68 adhesive is properly applied according to label and Mannington's Installation Handbook.
- 3) Moisture testing must be done utilizing either ASTM F1869 (Calcium chloride) or ASTM F 2170 (%RH) prior to the floor covering being installed.
- 4) Mannington Commercial V-68 must not be used on concrete slabs that do not have a vapor retardant membrane properly placed above the sand layer and next to the concrete.
- 5) Mannington Commercial V-68 must not be used on concrete slabs that have hydrostatic pressure or sources of moisture intrusion.
- 6) Alkalinity tests must also be performed. PH must not be greater than 10.0.
- 7) All tests have appropriate documentation available on request.

Please note that calcium chloride and alkalinity tests state only the condition of the floor at the time of the test. Test results are not indicative, nor do they predict, how environmental conditions may impact moisture or alkalinity in the future.

PO Box 12281  
Calhoun, GA 30703-7004  
telephone 706 629 7301  
facsimile 706 629 2171  
web www.mannington.com