

## Product Overview

The MA 2000 is a modified acrylic aerosol adhesive used for the permanent installation of recycled and vulcanized rubber products, as well as vinyl flooring products. The MA 2000 does not contain any Ozone depleting propellents, Red List 3.0 Chemicals, EPA Chemicals of Concern and other hazardous chemicals,

yet is still extremely aggressive.

When properly applied, the MA 2000 uses 80% less adhesive compared to trowel-applied products, yet still has excellent initial grab and shear strength. Once flooring is installed, the area is immediately usable, making the MA 2000 ideal for fast track construction and

installations that have fast turnaround times.

Due to it's easy spray application and long working time, the MA 2000 is an easy to use product that allows for flexibility during installation.

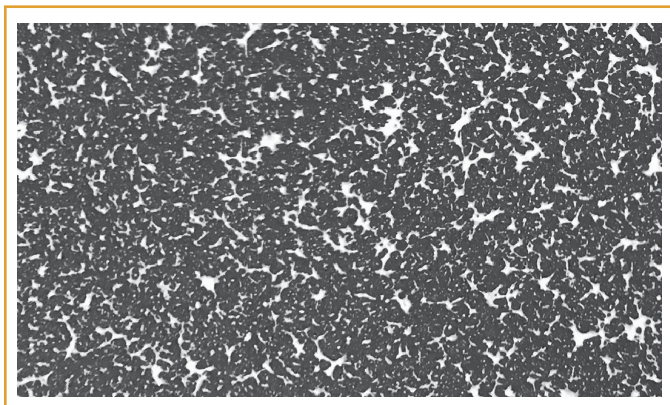
## Features

- Excellent Shear Strength
- Easy Application
- Long Working Time
- Allows for Immediate Use
- Easy Clean-Up
- No EPA Chemicals of Concern
- No Red List 3.0 Chemicals
- Qualifies for LEED® Credits
- CA Section 01350 Complaint

## Technical Data

Unit Size:	<b>33 oz.</b>
Unit Weight:	<b>2 lbs.</b>
EPA 8260B - VOC Content:	<b>0.020 g/ml</b>
NFPA Flammability Rating:	<b>0 (non-flammable)</b>
ASTM F2170 RH Limit:	<b>95% RH</b>
ASTM F1869 MVER Limit:	<b>8 lbs.</b>
Unit Coverage Rate:	<b>115 sq. ft.</b>
Flash Time:	<b>10 - 20 Minutes</b>
Working Time:	<b>2 Hours</b>
Light Foot Traffic:	<b>Immediate</b>
Normal Foot Traffic:	<b>Immediate</b>
Heavy Foot Traffic / Rolling Loads:	<b>Immediate</b>
Maintenance:	<b>48 Hours</b>
Shelf Life:	<b>3 Years</b>
Storage Temperature:	<b>65° - 85° F</b>

## Required Spray Pattern



## Product Limitations

All timing and coverage rates are subject to substrate conditions, such as porosity and flatness, and ambient conditions, such as ambient air temperature, relative humidity and substrate temperature. Actual timing and coverage rates may vary. Do not allow product to freeze. Do not install adhesive over substrates which contain contaminants, excessive moisture or hydrostatic pressure. Do not install outdoors. Adhesive cannot resist extreme dimensional instability of materials, which may cause gapping, cupping, buckling and/or edge lifting. Do not install over asphaltic materials and adhesives or adhesive residues.

### 1. PRE-INSTALLATION

- Consult all associated technical data for all related products and procedures, including adhesive, maintenance and warranty documents, prior to installation.
- Allow all trades to complete work prior to installation.
- Deliver all materials to the installation location in their original packaging with labels intact.
- Do not stack pallets to avoid damage.
- Remove all plastic and strapping from product after delivery and inspect for visible or obvious leakage or damage.
- Ensure that adhesive is approved for use with flooring material.
- Ensure installation area and material storage conditions are between 65° F (19° C) and 85° F (30° C) for at least 48 hours before, during and after installation.
- Ensure HVAC system is operational and fully functioning at normal operating conditions.
- Protect installation area from extreme climate changes, such as heat, freezing, humidity, and direct sunlight, for at least 48 hours prior, during and 48 hours after installation.
- Ensure all substrate preparation requirements have been performed, read and/or understood by all interested parties.
- Ensure all vents, walls, moldings and/or doorways are protected with tape or plastic prior to installation.
- Test substrate for porosity and absorption in order to determine the installation method necessary.
- Do not proceed with installation until all conditions have been met.

### 2. SUBSTRATE PREPARATION

All substrates must be prepared according to ASTM F710, as well as all other applicable ASTM, ACI and RFCI guidelines. Substrates must be clean, smooth, permanently dry, flat, and structurally sound. Substrates must be free of visible water or moisture, dust, sealers, paint, sweeping compounds, curing compounds, residual adhesives and adhesive removers, concrete hardeners or densifiers, solvents, wax, oil, grease, asphalt, visible alkaline salts or excessive efflorescence, mold, mildew and all other extraneous coating, film, material or foreign matter.

All substrates must have all existing adhesives, incompatible materials, contaminants or bond-breakers mechanically removed via scraping, sanding or grinding prior to adhesive installation. In extreme situations, shotblasting may be required. Mechanical preparation must expose at least 90% of the original substrate. Following cleaning and removal, all substrates must be swept or vacuumed and damp mopped with clean, potable water to remove all surface dust. **Sweeping or vacuuming without damp mopping will not be acceptable.**

All porous substrates must be tested per ASTM F3191 to confirm porosity. All substrates that do not meet porosity requirements are considered non-porous. Ensure that all non-porous substrates are not contaminated with aforementioned contaminants and that

all installation guidelines for non-porous substrates are followed. It is recommended that all substrates have a floor flatness of FF32 and/or a flatness tolerance of 1/8" in 6' or 3/16" in 10'. Substrates that do not meet this requirement should have a compatible cementitious patch or self-leveling underlayment installed to flatten the installation area.

Do not use solvent/citrus based adhesive removers prior to installation. Follow The Resilient Floor Covering Institute's (RFCI) "Recommended Work Practice for Removal of Existing Floor Covering and Adhesive", and all applicable local, state, federal and industry regulations and guidelines. When removing asbestos and asbestos containing materials, follow all applicable OSHA standards.

#### CEMENTITIOUS SUBSTRATES

All cementitious substrates, including self-leveling underlayments, must have a minimum compressive strength of 3000 PSI and be prepared in accordance with ASTM F710 and ACI 302.2R. When flooring is being installed directly over concrete, surfaces that have an ICRI Concrete Surface Profile (CSP) of 5 or more should be smoothed with a self-leveling underlayment or a cementitious patch to prevent imperfections from telegraphing through flooring materials. On or below grade concrete must have a permanent, effective moisture vapor retarder installed below the slab.

New or existing concrete substrates on all grade levels must be tested in accordance with ASTM F2170, using in situ Probes, to quantitatively determine relative humidity no more than one week prior to the installation.

In addition to ASTM F2170 Relative Humidity Testing, existing concrete that has previously had floor covering installed on all grade levels must be tested in accordance with ASTM F1869, using Calcium Chloride test kits, to quantitatively determine the Moisture Vapor Emissions Rate (MVER) of the concrete.

If ASTM F2170 or ASTM F1869 test results exceed the prescribed limits, a moisture mitigation product must be installed prior to proceeding with installation. Do not install flooring until moisture testing has been conducted per the appropriate standard and/or moisture mitigation has been installed and is dry to the touch. Do not install flooring in below grade areas when hydrostatic pressure is visible or suspected.

#### LIGHTWEIGHT/GYPSUM SUBSTRATES

Lightweight or gypsum substrates must have a minimum compressive strength of 2000 PSI when installed over a wood substrate or 3000 PSI when installed over a concrete substrate. Lightweight or gypsum substrates must be installed and prepared in accordance with ASTM F2419 or ASTM F2471, respectively. Lightweight or gypsum substrates that do not meet these requirements should be strengthened with a compatible repair product to improve the compressive strength of the substrate. Substrate must be structurally sound and firmly bonded to subfloor. All cracked or fractured areas must be removed and repaired with a compatible repair product. New or existing substrates may require a sealant or primer be installed prior to resilient floor installation. Follow the substrate manufacturer's recommendations regarding preparation for resilient flooring.

### WOOD SUBSTRATES

Wood substrates must be compliant with and prepared in accordance with ASTM F1482. Wood substrates should be of double layer construction with a recommended total thickness of 1" or more (depending on federal, state and local building codes). For standard installations, the top layer must be an APA Underlayment Grade plywood or equivalent with a minimum thickness of 1/4". Plywood must be smooth, free of knots or voids and fully sanded. When floors may be subjected to moisture, use an APA approved exterior grade plywood.

Other wood subfloor materials, such as CDX, OSB, I-joist, particleboard, chipboard, fiberboard or cementitious tile backer boards, are not acceptable substrates. Do not use preservative-treated and fire-retardant plywood, as some may be manufactured with resins or adhesives that may cause discoloration or staining of the flooring. Do not install flooring directly over solid or engineered hardwood flooring without first installing plywood or a suitable cementitious repair product at a minimum thickness of 1/4" over the hardwood flooring.

Wood subfloor deflection, movement, or instability may cause the flooring installations to release, buckle or deform. As such, do not use a plastic or resin filler to patch cracks. Do not use cement or rosin coated nails and staples or solvent-based construction adhesives to adhere the plywood. Do not install resilient flooring directly over a sleeper system (wood subfloor over concrete) or Sturd-I-Floor panels.

### RESINOUS SUBSTRATES

When installing directly over a resinous products, such as an epoxy coating, ensure the coating is dry to the touch and has cured for the prescribed length of time. Substrate must be clean, dry, sound and free of contaminants.

### METAL SUBSTRATES

Metal substrates must be thoroughly sanded/ground to remove all residue, oil, rust and/or oxidation. Substrate must be smooth, flat and sound prior to installation. When installing in areas that may be subject to topical water, moisture and/or high humidity, an anti-corrosive coating should be applied to protect metal substrate. Contact a local paint or coating supplier for coating recommendations. Install flooring material within 12 hours after sanding/grinding to prevent re-oxidation. Deflection in the metal floor can cause a bond failure between the adhesive and the metal substrate.

### EXISTING FLOORING SUBSTRATES

Existing hardwood flooring, resilient flooring or asphaltic materials, as well as the adhesives used to install them, must be completely removed from the substrate or completely isolated with a compatible cementitious patch or self-leveling product prior to installation. Existing hardwood flooring may also have suitable underlayment grade plywood installed over the substrate. Adhesive may be installed over existing hard surface flooring substrates, such as terrazzo, porcelain or ceramic tile. Ensure existing flooring is a single layer of material and that all materials are clean, dry, sound, solid and well adhered. All loose material must be removed and repaired or replaced. When handling

asbestos containing materials, ensure all OSHA regulations are followed and all procedures are compliant with local, state, federal and industry regulations and guidelines. All grout lines, wide seams and imperfections must be filled and troweled flush with a suitable cementitious patch. All existing flooring substrates that are outside of flatness tolerances should be repaired with a cementitious patch or self-leveling underlayment to avoid telegraphing imperfections through flooring material.

All existing flooring substrates must have any and all site-applied finishes and/or waxes completely removed prior to flooring installation in order to ensure a proper adhesive bond. For mechanical removal, use a low-speed buffer and 40-60 grit sandpaper. Properly prepared substrates should not have any remaining gloss or sheen. For chemical removal, ensure chemical treatments will not disrupt adhesion of the existing flooring to the substrate. Be sure to rinse the existing flooring adequately with clean, potable water to remove any and all chemicals from the surface of material. When removing finish from asbestos containing materials, ensure all OSHA guidelines regarding the removal of finish from asbestos is followed, in addition to applicable federal, state, local and industry regulations and guidelines.

Do not install flooring until any moisture on, between or below existing flooring has completely dried. Ensure all dust, dirt and debris are removed prior to flooring installation. Existing flooring substrates are non-porous – follow all installation instructions and flash times for non-porous substrates.

### RADIANT HEATING SUBSTRATES

When installing flooring over a substrate that contains a radiant heating system, ensure the radiant heat is no higher than 70° F (21° C) 48 hours prior to and during the entire installation. 48 hours after installation, the radiant heat may be gradually increased over the course of 24 hours, until normal operating temperature is reached. Ensure the temperature of the radiant heating system does not exceed 85° F (29.5° C) and avoid making abrupt changes in radiant heating temperature.

### 3. CONSTRUCTION JOINTS & CRACKS

All cracks, construction joints and other voids, as well as the areas surrounding them, must be clean and free of dust, dirt, debris and contaminants. All minor cracks 3/64" wide or less must be repaired with a compatible cementitious patch.

Due to the dynamic nature of concrete, manufacturer cannot warranty installations directly over construction joints (such as control cuts or saw joints), expansion joints, cracks or other voids wider than 3/64". Construction joints, expansion joints or cracks wider than 3/64" must have a suitable crack repair or joint repair system installed per the below recommendations.

All expansion joints should have a suitable expansion joint covering system installed to allow for expansion and contraction of the joint. To treat expansion joints where an expansion joint covering system can't be installed or to treat through cracks (depth at least 75% of the thickness of the concrete), chase joint or crack with a suitable saw or grinder and open to a minimum width of 1/4". Be sure to clean all dust, dirt and debris from

crack. Joints and cracks should then be sealed with a suitable, elastomeric caulk designed for use in expansion joints. Install a closed-cell backer rod at prescribed depth and follow all caulk manufacturer's instructions for installation. Ensure surface is troweled flush with surface of concrete.

To treat construction joints and surface cracks over 3/64", chase joint or void with a suitable saw or grinder and clean all dust, dirt and debris from crack. Fill entire crack with a rigid crack treatment designed for use in construction joints or cracks. Follow material manufacturer's instructions for installation. Ensure surface is troweled flush with surface of concrete.

**Consult a project engineer or architect prior to treating cracks or joints, especially those that may affect structural integrity (such as expansion joints). Review all manufacturer installation instructions and/or consult manufacturer technical staff for all crack or joint filling products prior to treating construction joints and cracks.**

#### 4. PRODUCT APPLICATION

Ensure substrate is clean, dry, flat, sound and suitably prepared prior to installation, as manufacturer is not responsible for substrates that have not been properly prepared and tested for moisture. Ensure adhesive is approved for use with flooring material and the proper applicator is used, as manufacturer is not responsible for all adhesion issues related to improper adhesive selection or usage.

Prior to application, wipe the substrate with your hand. If dust transfers easily, the substrate will need an additional damp mopping per Section 2 above.

While sealed, shake container vigorously. Remove cap and, with unit pointed directly down from a distance of 20-30 inches to the substrate and at a 170° - 180° angle, depress the nozzle and apply material while slowly walking back and forth or left to right. Do not use a sweeping motion or serpentine pattern, as this may create uneven coverage.

Use a spray shield or a protective covering to prevent overspray on walls, moldings and other vertical surfaces, as adhesive may be difficult to remove once dry. Be sure full and even coverage is achieved via the spray pattern on the unit or on Page 1. Avoid excessive adhesive build-up, as this may telegraph through flooring material. When installing sheet goods, apply twice as much adhesive along the perimeter and 12" on either side of seams. When installing materials in hospital rooms, apply twice as much adhesive under the hospital bed footprint. Clean adhesive spray tip after each use to prevent dripping and adhesive accumulation.

Clean accidental overspray immediately and while wet per section 5. Allow adhesive to flash completely – adhesive should not transfer to fingertips when lightly touched (10 - 20 minutes). Flash times may vary depending on substrate porosity, coverage rate and ambient conditions. Install flooring within 2 hours of application to ensure proper adhesion. Prevent dust, dirt and

debris from contaminating adhesive.

Immediately after installation, roll the flooring material with a 3 section, 75-100 lb. roller, crossing in a perpendicular direction after initial roll. Use a hand roller in areas that cannot be reached with larger roller. Visually inspect installation to ensure that material has not shifted and that adhesive has not been compressed onto surface.

#### 5. PRODUCT CLEAN-UP

Wet adhesive and overspray can be cleaned with a clean towel or cloth and a solution of a pH neutral cleaner and clean, potable water. Adhesive that has dried onto vertical surfaces may be difficult to remove, as well as cause damage to paint or wall materials after removal. Walls, tools and materials where adhesive has dried can be cleaned with denatured alcohol or equivalent solvent adhesive cleaner. Clean spray tips immediately after each use with a clean, wet cloth.

#### 6. WARRANTY

Gold Series provides a limited 5 year material & labor warranty for all properly installed adhesive products. For additional information, see associated warranty documents.

**FOR PROFESSIONAL USE ONLY. PLEASE CAREFULLY REVIEW ALL ASSOCIATED TECHNICAL DATA SHEETS, SAFETY DATA SHEETS, MAINTENANCE DOCUMENTS AND WARRANTY INFORMATION PRIOR TO INSTALLATION.**