



# MAVS 1000

Polymer-modified, Masonry Adhered Veneer Mortar



## Coverage

Approximately 30 ft<sup>2</sup> to 40 ft<sup>2</sup> (2.8 m<sup>2</sup> to 3.7 m<sup>2</sup>) per sack. Coverage may vary due to type of veneer, ambient temperature, surface temperature, surface porosity, mixing methods, and/or application methods.

## Packaging

50lb (22.7kg) bags

## Storage

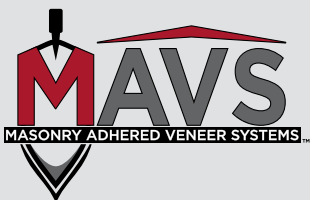
1. Store bags in a cool, dry location.
2. Store away from direct contact with the ground and/or concrete.
3. Store out of direct sunlight.
4. Protect bags from weather and other damage.

## Shelf Life

6 months to 1 year from date of production in an unopened bag when stored properly.

## Color

Natural grey, tan, and off white. Available in standard and custom colors; addition charges may apply.



## Product Description

**M**AVS 1000 is a polymer-modified, factory blended masonry mortar specifically designed for bonding thin natural and manufactured adhered veneers, and thin brick. The mortar is a mixture of portland cement, dried polymers, masonry sand, and other proprietary additives that give MAVS 1000 excellent workability and sag resistance with greater efflorescence resistance and bond strength than standard Type S mortars. MAVS 1000's advanced technology improves adhesion and is an excellent option for more challenging masonry applications, such as stacked stone.

Manufactured to the highest quality control standards, MAVS 1000 exceeds ASTM C270, TMS 402/602 shear strength, and ANSI A118.4 requirements. It is available in grey, white, and also a variety of standard and custom colors. MAVS 1000 is part of Omega's Masonry Adhered Veneer Systems (MAVS) family of products backed by Omega's system warranties.

### Features

### Benefits

<i>Polymer-modified</i>	Increased shear bond strength and water-resistance
<i>Sag-resistant</i>	Holds veneers in place
<i>Smooth consistency</i>	Excellent workability and easy installation
<i>High performance</i>	Exceeds ASTM C270, TMS 402/602 shear strength, and ANSI A118.4
<i>Efflorescence-resistant</i>	Reduces chance of efflorescence
<i>Low shrinkage</i>	Reduced risk of cracking

## Basic Uses

MAVS 1000 is designed to bond thin natural stone and manufactured masonry veneers, and thin brick, to solid surfaces such as concrete, brown coat, and masonry in residential and commercial, interior and exterior installations. For large or heavy veneers, upgrade to Omega MAVS 2000 or 3000 mortars.

## Area of Use

MAVS 1000 may be applied to the following substrates:

1. Masonry and CMU
2. Stucco brown coat
3. Cement backer units (per manufacturers' specifications)
4. Portland cement mortar beds
5. Brick

Note: Do not use over fluid applied membranes. Do not use over poured-in-place and tilt-up concrete.

## Optional Product Upgrades/Enhancements

PRODUCT	BENEFIT
AkroLoc/PolyLoc/Admix 500	Liquid admixtures that reduce cracking and increase tensile, bond, and flexural strengths
OmegaCure	Liquid accelerator to improve hydration, increase early strength/hardness, and allow cold weather application

## Surface Preparation

### Solid Substrates

All surfaces to receive application must be stable, structurally sound, clean and free of debris, dirt and dust, efflorescence, grease, oils, curing agents, cleaning solutions, coatings, sealers, or adhesive residues which may hinder bond. Smooth or painted cementitious surfaces can be prepared by mechanical means such as sandblasting or scraping. Dampen the surface prior to the application of MAVS 1000.

Refer to Omega MAVS system literature for addition wall system and structural requirements, including the use of expansion joints.

## Mixing

1. Add 1 gallon (3.8 L) of cool, potable water per 50 lb sack.
2. Slowly add one bag of MAVS mortar to the water while continuously mixing with a paddle mixer.
3. Mix thoroughly for approximately 2 to 3 minutes until material reaches a smooth, uniform consistency. Do not over mix to prevent air entrapment.
4. Allow mixture to slake (stop mixing) for 5 to 10 minutes then break the set (remix). During the application, occasionally stir the mixture to help maintain workability, but do not add more water.

**NOTE:** Use the same water-cement ratio to achieve consistency in workability and color. Troweled ridges should stand without slumping when properly mixed. Do not mix too dry.

## Application

Apply MAVS mortar per local code requirements and the recommendations of the stone veneer, thin brick, or masonry product manufacturers' specifications.

1. Ensure the veneer product is free from dust or other contaminants which may hinder bond. When hot, dry, or windy conditions exist, provide additional moisture or other protection to prevent flash drying of the mortar.
2. Trowel a thin layer of mortar to the entire bonding surfacing (backside) of the veneer product.
3. Apply additional mortar to back of the veneer product to ensure sufficient mortar to completely fill the space between the veneer product and the substrate.
4. Apply the veneer product to the substrate using firm pressure until excess mortar is squeezed from all sides of the veneer. Slightly move the veneer unit side to side to eliminate voids and ensure complete coverage.
5. Clean loose mortar from veneer surface and joints before mortar dries.
6. If desired, grout the joints with MAVS 1000 or MAVS Grout using a grout bag or a grout float where additional material is needed.
7. It is the responsibility of the user to ensure the mortar is suitable for the intended application, substrate is properly prepared and application is performed correctly. Always check with local building codes prior to installation. Quality control testing should be performed before and during application to ensure good bond is achieved.

## Curing

Curing and/or drying time may vary due to climate and job conditions. Drying should occur within 24 hours at an ambient and surface temperature of 70°F (21°C) and 55% R.H. When hot, dry, or windy conditions exist, protection should be provided. All freshly applied material must be protected from inclement weather until fully dry. Full adhesion strength should take three to seven days. Full curing strength typically occurs in approximately 28 days.

## Limitations

**DO NOT** apply product when the ambient and surface temperature is below 40°F (4°C).\* The ambient and surface temperature must maintain the above requirements until fully dry (See CURING). Material that is allowed to freeze before fully drying may suffer irreparable damage.

**DO NOT** add any other materials to the mixture of the product without written approval from Omega Products International.


**DO NOT** deviate in the mixing or application procedures contained in this, or any other Product Data Sheets, without written approval from Omega Products International.

**DO NOT** apply MAVS mortar if there are contaminants on the receiving surface. Contaminates may include, but are not limited to, dust, debris, efflorescence, and/or oils.

**DO NOT** add any more water than prescribed.

**DO NOT** saturate the wall during preparation.

**NOTE:** Failure to follow manufacturer's written specifications could result in the following, but not limited to spalling, cracking, peeling, chipping, delamination, discoloration, wash off, and overall system failure.

 To ensure proper hydration in cold weather applications (approximately 50°F to 32°F) use OmegaCure admix. Refer to OmegaCure data sheet for additional information.

## Cleaning

Cleaning may be accomplished with water immediately after use.

## Safety

Avoid contact with eyes or prolonged contact with skin. Wash thoroughly after handling. In case of eye contact, flush immediately with running water for at least 15 minutes. Consult a physician immediately. Do not take internally. Be sure to provide adequate ventilation in enclosed areas. Use of an approved respirator is recommended.

**KEEP OUT OF REACH OF CHILDREN**

### Disclaimer

Omega Products International [Manufacturer] MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE PRODUCT(S) SOLD HEREIN. The recommendations, suggestions, statements and technical data are based on the best knowledge available to Manufacturer and are given for informational purposes ONLY and without any responsibility for their use. It is expressly understood and agreed, as a condition of the use of this product, that the buyer's sole and exclusive remedy for any claimed defective product against Manu-

facturer shall be the replacement of products actually proven to be defective. Handling and use of the products are beyond the control of Manufacturer; therefore, no warranty is made, expressed or implied, as to the results obtained from the use of the product or against any claims for infringement of patents resulting from use of the product. Under no circumstance shall Manufacturer be liable for incidental or consequential damages arising out of the use or the improper application of the product. Before applying the product, the user shall determine the suitability of the product

for his/her independent use, assuming all risks and liability whatsoever in connection therewith. This writing constitutes a complete and exclusive statement of the understanding between Manufacturer and Buyer.

### Claims

Any Claimant shall notify Manufacturer immediately in writing of any alleged defect in the material. Claimant will provide Manufacturer with a reasonable and exclusive opportunity to investigate and test for the alleged defect.

For any claim that is not valid Claimant agrees to pay Omega's reasonable charges, including travel and labor associated with investigation of such claim.

### Technical Assistance

Technical assistance and information is available by calling Omega Products International at (951) 737-7447 or FAX (951) 520-2594 or by e-mail at [info@omega-products.com](mailto:info@omega-products.com).

### Warranty

The following is made in lieu of all expressed and implied rights, warranties and conditions, statutory or otherwise. The manufacturer's only obligation shall be to replace such quantity of products proven to be defective within one year following the date of manufacture, provided that the alleged defective product is returned prepaid to the manufacturer's plant and is accompanied with proof of purchase and batch number.