



# MAVS 3000

Ultra-Premium, Highly Polymer-modified, Masonry Adhered Veneer



## Coverage

Approximately 30 ft<sup>2</sup> to 50 ft<sup>2</sup> (2.8 m<sup>2</sup> to 4.6 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

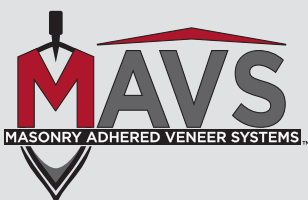
1. Store bags in a cool, dry location.
2. Store away from direct contact with the ground and/or concrete.
3. Store out of direct sunlight.
4. Protect bags from weather and other damage.

## 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 3000 is a highly polymer-modified, factory blended mortar specifically designed for bonding thin natural and manufactured adhered veneers, lightweight precast, most tile, and thin brick. The mortar is a mixture of portland cement, dried polymers, fine aggregate, and other proprietary additives that give MAVS 3000 excellent workability and sag resistance with greater efflorescence resistance and bond strength than standard Type S or thin-set mortars. MAVS 3000's advanced technology improves adhesion and is an excellent option for the most challenging masonry applications, such as large format and heavy veneers.

Manufactured with the highest quality control standards, MAVS 3000 exceeds ASTM C270, TMS 402/602 shear strength, and ANSI 118.15 requirements. It is available in grey and also a variety of standard and custom colors. MAVS 3000 is part of Omega's Masonry Adhered Veneer Systems (MAVS) family of products backed by Omega's system warranties.

### Features

Highly Polymer-modified

Sag-resistant

Smooth consistency

Very High performance

Efflorescence-resistant

Low shrinkage

### Benefits

Unsurpassed shear bond strength and water-resistance

Holds large, heavy veneers in place

Excellent workability and easy installation

Exceeds ASTM C270, TMS 402/602 shear strength, ANSI A118.4, ANSI 118.11, and ANSI 118.15 requirements

Reduces chance of efflorescence

Reduced risk of cracking

## Basic Uses

MAVS 3000 is designed to bond natural stone and manufactured masonry veneers (including large format and heavy veneers), most tile, thin brick, brick, stone and lightweight precast to solid surfaces such as concrete, brown coat, and masonry in residential and commercial, interior and exterior installations. May be used in submerged applications.

## Area of Use

MAVS 3000 may be applied to the following substrates:

1. Masonry and CMU
2. Poured-in-place and tilt-up concrete\*
3. Stucco Brown coat
4. Cement backer units (per manufacturers' specifications)
5. Portland cement mortar beds
6. Brick
7. Exterior grade plywood\*\*
8. Gypsum sheathing\*\*

\*Release agent must be removed prior to installation of MAVS 3000; sandblasting or bead blasting is required. Pressure washing is not acceptable.

\*\*Interior use only

### PRODUCT

OmegaCure

### BENEFIT

Liquid accelerator to improve hydration, increase early strength/hardness, and allow cold weather application

# Application Instructions



## Surface Preparation

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 3000.

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

## Mixing

1. Add 1.2 gallon (4.5 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.

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.

### Masonry Option

1. Trowel a thin layer of mortar to the entire bonding surfacing (backside) of the veneer product.
2. 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.
3. 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.

### Notched Trowel Option

Use the proper sized notched trowel to ensure full adhesion of the veneer product. Notched trowels with 1/4" x 3/8" x 1/4"

(6 mm x 9 mm x 6 mm) or 1/2" x 1/2" x 1/2" (12 mm x 12 mm x 12 mm) notches are generally used.

1. Key (press or burn) a thin layer of mortar into the substrate using the flat edge of a trowel.
2. Comb on additional mortar using the notched side of the trowel. Do not allow mortar to skim over (begin drying) before applying 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. Verify complete coverage by periodically removing and inspecting veneer product for 100% coverage.

Clean loose mortar from veneer surface and joints before mortar dries.

If desired, grout the joints with MAVS 1000 or MAVS Grout using a grout bag or a grout float where additional material is needed. Once the grout has started to set, approximately thumb print hard, strike back or sponge the grout to achieve the desired appearance.

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 Manufac-

turer 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.

### 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.

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