



04 DIVISION  
MORTAR

# ADHERED VENEER MASONRY MORTAR



## Superior Adhesion. Highly Durable.

SPEC MIX® Adhered Veneer Mortar (AVM) is a specially formulated mortar for use in the installation of thin veneer masonry units. It contains an optimal blend of dry cementitious materials, masonry sand, and performance enhancing admixtures specifically designed for use as a scratch coat, bond coat and joint grout for thin veneer masonry units. It is formulated as a cohesive material with consistent workability, high water retention and excellent bond strength. The final wall system will produce a non-load bearing, aesthetically pleasing exterior veneer or interior finish on concrete or masonry walls, stud walls or metal buildings.

SPEC MIX AVM meets the requirements of ASTM C 270, ASTM C 1714, and CSA A 179 for Type S mortar including ACI 530 shear strength requirements. SPEC MIX AVM has been rigorously tested to reduce “pop-offs” and contractor call-backs to repair adhered veneer failures common with standard mortars. SPEC MIX AVM is available in standard and custom colors.

SPEC MIX Adhered Veneer Mortar is acceptable for use in the installation of thin masonry veneer in all types of construction: concrete, masonry, wood frame or steel studs. Submittals are available upon request for certification to applicable ASTM, ACI, and CSA standards.

### TYPICAL MATERIALS

PORTLAND CEMENT  
HYDRATED LIME  
PERFORMANCE ADMIXTURES  
SAND



STANDARD (VM-01)  
COLOR (VM-05)

AVAILABLE  
IN COLOR





## ADHERED VENEER MASONRY MORTAR

### INSTALLATION/APPLICATION

SPEC MIX Adhered Veneer Mortar should be installed in accordance with the provision of the local building codes. It should also be installed in accordance with the instructions and requirements provided by the producer of the manufactured stone or brick. Prior to installation, all surfaces should be cleaned before applying mortar. A water-resistant barrier should be applied to surfaces other than concrete masonry.

Using a trowel, apply SPEC MIX Adhered Veneer Mortar ½ inch to ¾ inch (13 mm to 19 mm) thick to surface making sure to embed the mortar into the wire lath. Before the mortar begins to harden, use a notched trowel to “scratch” the mortar surface. Coat the back of each unit with mortar and press it firmly into place until the excess material extrudes from the sides of the unit. Once all units are in place, fill each joint with Adhered Veneer Mortar by using a grout bag, trowel and a tuckpointing tool or gun. Alternatively, the units can be applied to a scratch coat that has been cured. Mortar shall be used and placed in final position within 2.5 hours after initial mixing or discarded at that time. Whenever possible, do not retemper colored SPEC MIX Adhered Veneer Mortar by adding additional water; retempering may affect color consistency. SPEC MIX products must be kept dry, covered and protected from weather and other damage.

### SIZES AND EQUIPMENT

SPEC MIX Adhered Veneer Mortar is available in 80 lb (36.2 kg) packages for easy hand loading or in 3,000 lb (1,360.7 kg) reusable bulk bags to be used with the various SPEC MIX silo systems. When using the silo system, once the bulk bags of mortar are delivered to the project site, the portable silo is loaded with a jobsite forklift and the product is dispensed into a mechanical batch mixer.

### MIXING INSTRUCTIONS

**WEAR IMPERVIOUS GLOVES**, such as nitrile.

- Mixing is best accomplished by using a mechanical mixer to ensure optimal workability and performance.
- Use clean, potable water; add the amount of water consistent with optimum workability which provides adequate water to satisfy the initial rate of absorption of the masonry units.
- Mixing times are four to five minutes when using an mechanical batch mixer and should be held consistent from batch to batch.

### 28 DAY TEST RESULTS

	ASTM C 482 Bond Strength	AGI 530 Requirement
Manufactured Thin Stone	151 PSI (1 MPa)	50 PSI (0.3 MPa)
Natural Thin Stone	127 PSI (0.8 MPa)	50 PSI (0.3 MPa)

### ESTIMATED YIELDS

	80 lb Bag	3,000 lb Bag
Scratch Coat	20 to 23 ft <sup>2</sup> (1.8 to 2.1 m <sup>2</sup> )	750 to 860 ft <sup>2</sup> (69.6 to 79.8 m <sup>2</sup> )
Bonding Coat	24 to 26 ft <sup>2</sup> (2.2 to 2.4 m <sup>2</sup> )	900 to 975 ft <sup>2</sup> (83.6 to 90.5 m <sup>2</sup> )
Joint Grout	38 to 40 ft <sup>2</sup> (3.5 to 3.7 m <sup>2</sup> )	1,425 to 1,500 ft <sup>2</sup> (132.3 to 139.3 m <sup>2</sup> )
Full Installation	13 to 15 ft <sup>2</sup> (1.2 to 1.3 m <sup>2</sup> )	485 to 560 ft <sup>2</sup> (45 to 52 m <sup>2</sup> )

Note: The yields given above are approximate and depend on labor practices, site conditions and design of work. Yields include typical waste. Please contact your local representative for more specific yield information in your area.



- Maintain the same mixing procedures to maintain consistency throughout the project.
- Tool mortar joints when the surface is thumb-print hard. Keep tooling times consistent.
- Hand mix mortar only with written approval by the specifier who should outline procedures.
- Use mortar within 2.5 hours after initial mixing.
- Retemper mortar only when mixing water is lost due to evaporation.
- Whenever possible, do not retemper colored SPEC MIX masonry mortars by adding additional water; retempering may affect color consistency.

### LIMITATIONS

SPEC MIX Adhered Veneer Mortar should be installed in accordance with the provisions of the local building code and applicable ASTM standards. Good workmanship coupled with proper detailing and design assures durable, functional, watertight construction. Follow proper cold-weather and hot-weather masonry procedures at temperatures below 40 °F (4 °C) or above 100 °F (38 °C) respectively.

### LIMITED WARRANTY

SPEC MIX, Inc. warrants this product to be of merchantable quality when used or applied in accordance with the instructions hereon. This product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is LIMITED to the replacement of its product (as purchased) if found to be defective, or at the shipping company's option, to refund the purchase price. In the event of a claim under this warranty, notice must be given to SPEC MIX, Inc. in writing at: One Securities Centre, 3490 Piedmont Road, Suite 1300, Atlanta, GA 30305. THIS WARRANTY IS ISSUED AND ACCEPTED IN LIEU OF ALL OTHER EXPRESS WARRANTIES AND EXPRESSLY EXCLUDES LIABILITY FOR CONSEQUENTIAL DAMAGES.

### TECHNICAL SUPPORT

- CONTACT YOUR LOCAL SPEC MIX® MANUFACTURER
- VISIT [WWW.SPECMIX.COM](http://WWW.SPECMIX.COM)
- CONTACT SPEC MIX®, INC.  
PHONE: 888-SPEC MIX FAX: 651-454-5315