



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 A179 for Type S mortar including TMS 402/602 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, TMS, 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	TMS 402/602 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

#### IN THE UNITED STATES

**NOTICE:** Obtain the applicable LIMITED WARRANTY at [www.specmix.com/product-warranty](http://www.specmix.com/product-warranty) or send a written request to SPEC MIX, LLC, Five Concourse Parkway, Atlanta, GA 30328, USA.

**AVISO:** Obtenga la GARANTÍA LIMITADA correspondiente en [www.specmix.com/product-warranty](http://www.specmix.com/product-warranty) o envíe una solicitud por escrito a SPEC MIX, LLC, Five Concourse Parkway, Atlanta, GA 30328, USA.

#### IN CANADA

**NOTICE:** Obtain the applicable LIMITED WARRANTY at [www.specmix.com/product-warranty](http://www.specmix.com/product-warranty) or send a written request to SPEC MIX, LLC, Five Concourse Parkway, Atlanta, GA 30328, USA.

**AVIS:** Obtenez la GARANTIE LIMITÉE applicable sur [www.specmix.com/produit-garantie](http://www.specmix.com/produit-garantie). Ou envoyez une demande écrite à SPEC MIX, LLC, Five Concourse Parkway, Atlanta, GA 30328, USA.

### TECHNICAL SUPPORT

- CONTACT YOUR LOCAL SPEC MIX® MANUFACTURER
- VISIT [WWW.SPECMIX.COM](http://WWW.SPECMIX.COM)
- CONTACT SPEC MIX®  
PHONE: 888-773-2649 FAX: 651-454-5315



## Product Certification Letter

January 9, 2020

**Product Description:** 80 lb. / 3000 lb. SPEC MIX® Adhered Veneer Mortar  
**Item Number:** 19010 / SM19010  
**Manufacturing Plant:** QUIKRETE® - Wisconsin

To: Whom It May Concern

This letter certifies that SPEC MIX Adhered Veneer Mortar as referenced above meets the requirements of ASTM C1714 and the performance requirements of an ASTM C270 Type S mortar.

The raw materials used in this product formulation meeting the standard specifications include: Type I/II Portland Cement meeting ASTM C150, *Standard Specification for Portland Cement*, Hydrated Lime Type SA meeting ASTM C207, *Standard Specification for Hydrated Lime for Masonry Purposes*, Mason Sand meeting ASTM C144, *Standard Specification for Aggregate for Masonry Mortar*, and a proprietary admixture.

It is available as a standard gray, as well as in a variety of standard and custom colors. For custom colors, the finished product item number will vary from the base design item number above depending upon the specific pigment. These color versions also meet the performance characteristics listed in this certification letter.

Mortar property characteristics including compressive strength are specified according to ASTM C270 with laboratory testing. ASTM C270 (property specification) is not for use to specify minimum compressive strengths to be achieved by field mixed mortars. Field mixed mortar may be tested according to ASTM C780 to evaluate mortar properties such as mortar water content or consistency. As defined in ASTM C1586, compressive strength values determined through ASTM C780 in the field are **not expected nor required** to achieve the compressive strengths of laboratory tested ASTM C270 specification mortars.

We are pleased to be of service to you. If you have any questions, please let us know.

A handwritten signature in black ink that reads "Wendy Henry". The signature is written in a cursive style with a horizontal line underneath the name.

Wendy Henry  
Quality Assurance Manager

WMH: TD

THE QUIKRETE® COMPANIES, LLC  
Technical and Engineering Center  
500 Marathon Parkway  
Lawrenceville, GA 30046  
770.216.9580 • [www.quikrete.com](http://www.quikrete.com)  
651.994.7120 • [www.specmix.com](http://www.specmix.com)



## Material Test Report

<b>Product Description:</b>	80 lb. SPEC MIX® Adhered Veneer Mortar
<b>Item Number:</b>	19010
<b>Manufacturing Plant:</b>	QUIKRETE® of Wisconsin, Inc.

### Sample Identification

### Initial Testing

Test Completed:	11/11/2019	Test	Specification	Results
Lab Code:	19-1407	Water (%)	As required	15.8
		Consistency	105 - 115% @25d	108
		Unit Weight	1	128.3
		Set Time		
		Air (%)		

### Strength Testing

Test	Compressive Strength (psi)		Flexural Strength (psi)	
	Specification	Result	Specification	Result
Age				
1 day				
3 day				
7 day	1	2132		
28 day	1800	2600		

### Other Testing

Test	Specification	Test Results
Water Retention	>= 75%	89.8

(1) A value of 1 indicates that the property is being measured but no minimum value has been set

Certified by:

Wendy Henry  
Quality Assurance Manager

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