

**STONE VENEER MORTAR SVM 500****PRODUCT DESCRIPTION**

SPEC MIX® SVM 500 is an extreme-performance, dry, factory polymer-modified mortar specifically designed to bond natural stones, large format stones, manufactured adhered veneer, thin brick, and pavers requiring a medium bed (1/4" - 1 1/2") bonding mortar*. This bonding mortar is a blend of cement, sand and performance admixtures specifically designed to provide superior bond, water repellency and resistance to efflorescence. May be used in submerged applications.

SPEC MIX® SVM 500 is part of E-Z Mix Stone Veneer Mortar System (SVMS) family of products backed by E-Z Mix system warranties. Get up to 35-year wall system warranty when SPEC MIX® SVM 500 is used over an E-Z Mix wall system, such as SPEC MIX® Scratch & Brown fibered Stucco or an approved one coat stucco.

*For medium bed application, use SVM 500 Coarse only.

USES

SPEC MIX® SVM 500 is engineered specifically for wall installations of interior and exterior large format stones, natural stone, manufactured masonry veneer and thin brick.

May be used in submerged applications.

SPEC MIX® SVM 500 may be applied to the following substrates:

- Cement backer board (per manufactures' specification)
- Masonry and CMU
- Stucco Brown Coat
- Pour-in-place and tilt-up concrete*
- Portland Cement Mortar beds

*Release agent must be removed prior to installation of SVM 500; sand-blasting or bead blasting is required. Pressure washing is not acceptable.

ADVANTAGES

- Quality control – a consistent batch every time
- High shear bond
- Great anti-sag properties
- Low shrinkage
- High water-repellency
- Excellent efflorescence reducing properties

TECHNICAL DATA

SPEC MIX® SVM 500 exceeds ASTM C270, TMS 402/602 shear bond strength, ANSI A118.4, ANSI A118.11 and ANSI A118.15 requirements.

**PACKAGING**

SPEC MIX® SVM 500 is available in grey, white and custom colors upon request.

SPEC MIX® SVM 500 is also available in two sand profiles:

- Coarse: Same sand used in Type S masonry mortar.
- Fine: Sand that is similar to thin set mortar.

50 lb. (22.6 kg) bags in fine and coarse

94 lb. (42.6 kg) bags in coarse

COVERAGE

Trowel Size	50 lb. (22.6 kg) bag	94 lb. (42.6 kg) bag
1/4" x 3/8"	60 - 70 ft ²	112 - 132 ft ²
1/2" x 1/2"	40 - 50 ft ²	75 - 94 ft ²
Masonry Method	30 - 35 ft ²	56 - 66 ft ²

Approximate coverage per 50 and 94 lb. bag. Coverage may vary due to the type of veneer, ambient or surface temperature, surface preparation and/or mixing or installation methods.

STORAGE

- Store bags in a cool, dry location.
- Store away from direct contact with the ground and/or concrete.
- Store out of direct sunlight.
- Protect bags from weather and other potentially damaging elements.

SURFACE PREPARATION

All surfaces to receive installation must be stable, structurally sound, clean and free of debris, dirt and dust, efflorescence, grease, oils, curing or release agents, cleaning solutions, coating, 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 SPEC MIX® SVM 500. Refer to E-Z Mix SVMS system literature for additional wall system and structural requirements.

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MIXING

1. Add 1.0 to 1.2 gallons (3.8 to 4.5 L) of cool, potable water per 50 lb bag. Add 1.9 to 2.25 gallons (7.2 to 8.5 L) of cool, potable water per 94 lb bag.
2. Slowly add one bag of SVM 500 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 mortar to rest (slake) for 5–10 minutes then remix without adding additional water. During use, occasionally stir the mixture to help maintain workability. DO NOT temper with water.

APPLICATION

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

Always check with local building codes prior to installations.

Preparation of a sample panel with all materials and masonry systems employed in the final project is imperative. Retain the mock-up or field samples through the completion of the project.

Prior to installation, make sure that the thin masonry veneer units are free from dust, cutting residue or any film that could impede proper bond to the substrate.

MASONRY INSTALLATION METHOD

1. Use a gauging trowel to key (press or burn) a thin coat of mortar into the substrate.
2. Apply a skim coat of mortar to the surface of the masonry veneer unit using a standard masonry trowel for adhered veneer application to coat the entire veneer surface.
3. Apply additional mortar sufficient to completely fill the space between the unit and substrate when set.
4. Press the veneer unit firmly into place on a properly prepared substrate in a perpendicular motion, moving back and then forth into place using even pressure to make sure voids behind the unit are filled completely. Make sure to use enough mortar to see mortar extruding around the unit, ensuring complete coverage. Veneers that have been set for more than 10–15 minutes should not be readjusted. If any adjustment is needed after set time, scrape off existing mortar and reapply with fresh mortar as described above.
5. Remove excess mortar from the unit surface, sides of units or area where units are not applied while mortar is still wet.

ALTERNATE INSTALLATION METHOD

1. Key Spec Mix® SVM 500 into the substrate thoroughly using a 1/4 in x 3/8 in (6.3 mm x 9.5 mm) or 1/2 x 1/2 in (13 mm x 13 mm) notched trowel.
2. Add additional thin-set mortar to the substrate and then comb with a notched trowel to produce horizontal ridges. Work in small areas to keep the bond coat plastic while installing.

3. Back butter all masonry veneer units fully with SVM 500 to provide a full mortar bed when installing the units.
4. Place masonry veneer into the mortar bed and adjust into final desired location using firm pressure. Veneers that have been set for more than 10–15 minutes should not be readjusted. If any adjustment is needed after set time, scrape off existing mortar and reapply with fresh mortar as described above.
5. Remove any excess mortar from the unit surface, sides of units or areas where units are not applied while mortar is still wet.

JOINTING

Allow installation to cure for 24 hours before jointing. Grout the joints with Spec Mix® Masonry Mortar, IWR Mortar or LR Mortar; all mortars are specifically designed to flow through grout bags for ease of installation and are available in standard or custom colors.

LIMITATIONS

Do not apply when temperatures are below or may fall below 40°F prior to or during curing. Proper curing is required; extreme weather conditions will affect cure and performance. Do not add any admixtures without prior approval from E-Z Mix Inc.

WARRANTY

The technical information and usage statement is based on our best knowledge. The content of this specification sheet are provided for information only and do not constitute a warranty or guarantee. The manufacturer will replace only that material which is proven defective due to quality of the components of the manufacturing process.

CAUTION

Prolonged exposure to dust may cause delayed lung disease. Eliminate exposure to dust. Use NIOSH-approved mask for silica dust. Freshly mixed material may cause skin irritation. Avoid direct contact when possible and wash exposed skin areas promptly with water and get prompt medical attention. See Safety Data Sheet.



WARNING: This product can expose you to chemicals including Chromium (hexavalent compounds), which are known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

