



STONE VENEER MORTAR

◆ The Pro's Choice Since 1936



Sakrete® Stone Veneer Mortar is a high performance, polymer modified mortar designed to set and grout artificial stone and natural stone veneers. Can be used over nearly any solid wall including masonry units, poured concrete or plywood. Mortar is only a part of the larger process of installing

stone veneer. As such, the information provided here should be used in conjunction with "Installation Guidelines for Adhered Concrete Masonry Veneer and local building code requirements.

Features:

- High Strength >1,800 psi
- Meets property requirements of ASTM C1714 and ASTM C270
- Applications from 3/8" to 1/2" (9.5 to 12.7 mm)
- Can be color pigmented with the Sakrete Cement Colors

Use For:

- Setting artificial and natural stone
- Laying brick or block
- Scratch and brown coat in stucco applications
- Above and below grade applications
- Masonry parge or finish coating
- Interior or exterior
- Brick and block tuck pointing

Yield/Water/Coverage:*

Bag Size	Yield - for installing artificial or natural stone	Water
80 lb (36.3 kg)	13 ft ² (1.12 m ²)	5 - 6 qt (4.7 - 5.7 L)
50 lb (22.7 kg)	8 ft ² (.92m ²)	2.5 - 3 qt (2.4 - 2.8 L)

NOTE: Yield and water are approximate. The yield above does not allow for waste and spillage.

*Yield includes mortar needed for the scratch coat, the stone installation and filling the grout joints.

Technical Data:

Sakrete Stone Veneer Mortar meets or exceeds the requirements of ASTM C270.

Compressive Strength ASTM C109
28 days = 1,800 psi (12.4 MPa)

Water Retention
>75%

COLOR:

Gray

Testing:

Mortar should be tested in the field by ASTM C780, standard test method for preconstruction & construction evaluation for mortar for plain & reinforced unit masonry. Due to the procedure differences between ASTM C270 & ASTM C780, the compressive strength values resulting from field sampled mortar are not required nor expected to meet the minimum compressive strengths of the property specifications of ASTM C270 as tested in controlled laboratory conditions.

DIVISION 4

Manufactured Stone Masonry - 04 73 00

Preparation/Application:

For best results all materials should be stored between 40°F (4°C) and 80°F (27°C) 24 hours prior to installation.

Refer to:

- ACI 530.1 Specification for Masonry Structures
- International Masonry Industry All-Weather Council (IMIAC)
 - Recommended Practices and Guild Specifications for Cold Weather Masonry Construction
 - Recommended Practices and Guide Specifications for Hot Weather Masonry Construction
 - ASTM D4258 Surface Cleaning Concrete for Coating
 - ASTM D42359 Abrading Concrete
 - ASTM D4260 Acid Etching Concrete
 - Installation Guidelines for Adhered Concrete Masonry Veneer

Stone Application:

Before beginning the installer must verify that substrate deflection does not exceed industry standards of L/600 for stone installations L=span length.

Expansion joints shall be provided as specified and must honor existing expansion joints in the substrate through the veneer.

1. Stones can be laid from the top of the wall down or the bottom up.
2. Starting at the top eliminates mortar from spilling on stones below.
3. Starting at the bottom helps support the weight of the stones above. In either application set the corner first.
4. Dampen the scratch coat, concrete surface or masonry unit.
5. Apply a 1/2" (13 mm) thick layer of mortar to the back of each stone. When installing larger stones, apply a thick ring of mortar around the back of each stone leaving a void in the center to create a vacuum as you press the stone into place.
6. Allow the mortar to squeeze out around the stones edges. Place temporary shims if needed between the stones until the mortar sets to maintain even spacing.
7. After placing the stone and the mortar has set to thumb-print hard, remove the shims.
8. Use a grout bag to fill in joints where additional mortar is needed.
9. Using a joint tool, compact and seal edges around stone and rake out excess mortar. Irregular mortar joints can be more easily finished using a gloved finger or a thin piece of wood.

Concrete and Masonry Surfaces:

1. Thoroughly clean area and remove all unsound concrete, mortar, paint, dirt, dust, or any foreign materials that would inhibit performance.



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2. If surface cannot be completely cleaned, metal lath will need to be installed.
3. Freshly poured concrete or masonry substrates must be cured a minimum of 7 days.
4. Certain conditions may require the substrate to be SSD (surface saturated dry) condition such as dry windy climates, porous substrates, or high temperatures.
5. All surfaces to receive the Sakrete Stone Veneer Mortar are to be hard, dry sound and able to support the weight of the stone.

Scratch/Brown/Stucco:

Masonry

1. Application over masonry must follow ASTM C926 Standard Specification for Application of Portland Cement Based Plaster.
2. Applications over lath (wood and masonry) must follow ASTM C1063 Standard Specification for Installation of Lathing and Furring to receive interior and exterior Portland cement based plaster.
3. Apply material using a trowel and masonry hawk using enough pressure to compact the material.
4. Texture stucco to match the surrounding area using a plasterer's trowel or finish to desired texture.

Plywood Substrates:

1. Exterior applications will require the installation of a water resistive barrier.
2. After securing the barrier, secure the metal lath to the plywood as published in ASTM C1063.
3. Apply a 1/2" (13 mm) thick scratch coat of mortar over and embedding into the lath.
4. Use a scarifier or notched trowel to rake horizontal grooves in the wet mortar.
5. Allow scratch coat to cure for 24 hours.

NOTE: Check with local building code requirements for proper installation guidelines.

Mixing:

1. Empty contents of Sakrete Stone Veneer Mortar into a wheelbarrow or mortar pan forming a crater in the center of the dry mix for the addition of clean potable water. Projects requiring multiple bags are mixed much easier with a mechanical mixer.
2. Add clean potable water (see table above for water amounts) or enough to achieve a workable mix. Add additional water if needed. A SOUPY MIX MUST BE AVOIDED.
3. Excess water reduces strength and durability and can cause cracking, dusting or scaling.
4. Let slake for 5 minutes then remix and use.
5. Re-tempering impairs performance.

Sakrete Cement Colors can be used to tint the mortar to compliment, contrast or accent the various colors of the stone. Use up to 1 lb (0.44 kg) of Cement Color per bag of mortar. Follow Cement Color package instructions.

Curing:

1. Proper curing is critical for sound results. Curing means maintaining proper moisture and temperature. The material must be kept continuously moist for several days.
2. In hot or windy conditions keep the mortar/stucco damp to promote adequate curing.
3. Drape plastic over the wall to help retain moisture.
4. If surface begins to appear dry remove the plastic moisten the surface and replace the plastic.

Precautions:

Air, mix and substrate temperatures should be between 40°F (4°C) and 90°F (32°C) and no rain in the forecast within 24 hours of application. For applications outside this range of temperatures and conditions, contact Sakrete Technical Service.

- For use with individual stones weighing less than 7 lb (3.8 kg) each.
- Colder temperatures or higher humidity conditions will retard set times.
- Use only clean mixing container and tools.
- Do not overwater.
- Do not add any materials other than clean potable water or Sakrete Bonder and Fortifier. See Technical Data Sheet for mixing instructions.
- Protect from freezing for 48 hours.

NOTE: Proper application and installation of all Sakrete products are the responsibility of the end user.

Safety:

READ and UNDERSTAND the Safety Data Sheet (SDS) before using this product. **WARNING:** Wear protective clothing and equipment. For emergency information, call CHEMTREC at 800-424-9300 or 703-527-3887 (outside USA).

KEEP OUT OF REACH OF CHILDREN.

Limited Product Warranty:

The manufacturer warrants that this product shall be of merchantable quality when used or applied in accordance with the manufacturer's instructions. This product is not warranted as suitable for any purpose other than the general purpose for which it is intended. This warranty runs for one (1) year from the date the product is purchased. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE DURATION OF THIS WARRANTY. Liability under this warranty is limited to replacement or defective products or, at the manufacturer's option, refund of the purchase price. CONSEQUENTIAL AND INCIDENTAL DAMAGES ARE NOT RECOVERABLE UNDER THIS WARRANTY.