



STONE VENEER MORTAR

DIVISION 04 73 00 – MANUFACTURED STONE MASONRY

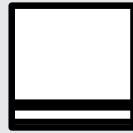


KNOW YOUR MIX

Sakrete Stone Veneer Mortar is a high performance 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.



FOR NATURAL OR
MANUFACTURED STONE



APPLICATIONS
3/8" – 1/2"



FINAL
STRENGTH



YIELD
STONE VENEER



C270
C482
C1714

FEATURES

- High Strength >1,800 psi
- Meets property requirements of ASTM C 1714 and ASTM C 270
- 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

TECHNICAL DATA

PACKAGE SIZE	YIELD	WATER REQUIRED
50 lb 22.7 kg	8 ft ² 0.92 m ²	2.5–3.5 qts 2.4–3.3 L
80 lb 36.3 kg	13 ft ² 1.12 m ²	4.5–6 qts 4.2–5.7 L

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

Compressive Strength ASTM C109

28 days >1800 psi (12.4 MPa)

Bond Strength ASTM C482

Cast Stone @ 7 days >500 psi (3.44 MPa)

Natural Stone @ 7 days >600 psi (4.14 MPa)

Water Retention

>75%

LEED Eligibility:

Regional Materials (MR-c5)

Recycled Material (MR-c4)

ESTIMATE
YOUR JOB



SAKRETE.COM/
CALCULATORS



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.

- Colder temperatures or higher humidity conditions will retard set times.
- Use only clean mixing containers and tools.
- For individual stones weighing less than 7 lbs. (3.8 kg) each. Do not use Stone Veneer Mortar to set stone panels.
- Do not overwater.
- Do not add anything other than clean potable water or Sakrete Bonder & 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.

TESTING

Mortar should be tested in the field by ASTM C 780, Standard Test Method for Preconstruction & Construction Evaluation for Mortar for Plain & Reinforced Unit Masonry. Due to the procedure differences between ASTM C 270 & ASTM C 780, 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 C 270 as tested in controlled laboratory conditions.

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.

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 Guild Specifications for Cold Weather Masonry Construction
- ASTM D 4258 Surface Cleaning Concrete for Coating
- ASTM D 42359 Abrading Concrete
- ASTM D 4260 Acid Etching Concrete

NOTE: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

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.

APPLICATION: STONE

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

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 ½" 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.



APPLICATION: 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.
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.

TUCK POINTING

1. After proper preparation, SSD existing joint. Place mortar into the joint with a tuck pointing trowel.
2. Use the tuck pointing trowel to tool the joint and compact for a tight neat appearance.

SCRATCH/BROWN/STUCCO: MASONRY

1. Application over masonry must follow ASTM C 926 Standard Specification for Application of Portland Cement Based Plaster.
2. Applications over lath (wood and masonry) must follow ASTM C 1063 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.

SCRATCH/BROWN/STUCCO: 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 C 1063.
3. Apply a ½ inch 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.

Sakrete Cement Colors can be used to tint the mortar to complement, 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.

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SAFETY

READ and UNDERSTAND the Material Safety Data Sheet (MSDS) 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). Refer to Safety Data Sheet (SDS) for further information. **KEEP OUT OF THE REACH OF CHILDREN.**



DANGER

HAZARD STATEMENT

Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. Causes damage to organs (lungs) through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If exposed or concerned: Get medical advice/attention. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. Store locked up. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

CONTAINS: Portland cement

⚠ WARNING: This product can expose you to Quartz, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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 dates 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.