



Architectural Cast Stone Products
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“SAND-SET” INSTALLATION GUIDELINES

OVERVIEW

ANCIENT STONE[®] paving materials are prepared in a “wet cast” system at thicknesses of 1 ½”, 2”, and 2 ½”. They demonstrate significant compressive strength but like most concrete products, they have much lower tensile strength. Therefore, care must be taken not to apply uneven pressure to individual modular units during handling and/or installation.

AREA PREPARATION

ANCIENT STONE[®] paving materials should be installed over a bed of no more than 2” of moist and well-compacted sand. To achieve this, the sub-grade should first be graded and properly compacted to a level below the desired finish grade of the top of the paving materials sufficient to allow for no more than 2” of sand and the thickness of the paving materials being used.

EDGE BINDING

Like all paving materials, ANCIENT STONE[®] paving materials require that the perimeter of the material to be installed, is bound by either a vertical barrier such as a foundation, wall, or other reinforced vertical surface, such as staked steel, wood or plastic border, in a dimension equal or greater than the combination of the sand and paver system, such that the supporting sand is contained and cannot erode from beneath the paving materials. However, where the edge of the paving system is intended to be exposed and the paving materials are “free floating” or not adjacent to a vertical surface as described above, the perimeter should be bound by adhering the outside area of paving materials to a concrete turndown or small footing. The appropriate turndown or footing should be approximately 8” to 12” wide by 4” to 6” deep with the top approximately ¼” below the adjacent compacted sand finish grade, sufficient to allow for approximately ¼” of adhesive setting material. This allows for thinset adhesive approximately ¼” thick to adhere the perimeter paving materials in place. This border should be established and installed prior to installing the field paving materials over the compacted sand.

SAND-SETTING

Spread the sand to a thickness of no more than 2" to follow a grade below the desired finish grade of the top paving materials sufficient to allow for the thickness of the paving materials being used. Spray a mist of water over the sand as needed to keep it moist while compacting and adjusting for proper grade elevation. A roller or vibrator may be used to compact sand. Another method is to hand tamp in small areas ahead of the material being laid. Continue to adjust sand grade by adding or removing sand as needed and re-compacting as needed prior to setting the paving materials in place. As the sand is prepared and compacted, the individual stone paving materials should be set in place by hand, using care to follow a pattern and leaving a minimal space between each piece yet allowing the pattern to be carried on without disruption. Some paving materials may be butting and some may require a slight space to follow the pattern or layout. Paving materials may be tapped into place by hand or with a rubber mallet. **DO NOT USE A VIBRATING PLATE OVER THE INSTALLED PAVING MATERIALS! THIS WILL DAMAGE THE FINISHED SURFACE OF AND WILL LIKELY LEAD TO CRACKING OR BREAKING OF THE INSTALLED PAVING MATERIALS.**

PRE - SEALING

Once the paving materials are set in place and prior to filling the joints, "Pre-Seal" the paving materials. Clean the surface of the paving materials with a broom or with a blower. Make sure any dirt or marks are removed prior to sealing. For ANCIENT STONE® products with colored or multi-colored texture, apply a light misting of penetrating sealer to allow the colored texture to "set". Allow "misted" application to dry prior to applying a liberal application of sealer. **Failure to do so may result in running or smearing of the texture color over the base stone color.** For all other ANCIENT STONE® products, apply a liberal application of ANCIENT STONE® PENETRATING SEALER to the surface of the paving materials allowing the sealer to enter between the paving materials down into the vertical surfaces of the joints as well. Follow the instructions on the sealer label. If a gloss finish is desired, follow the ANCIENT STONE® PENETRATING SEALER with an application of ANCIENT STONE® GLOSS SEALER after allowing the penetrating sealer to be absorbed and dry, following the instructions on the label.

JOINT FILLING

Due to the necessary spacing required to follow the pattern or layout, joint widths may vary slightly. In order to keep individual paving materials from shifting, fill the joints with ANCIENT STONE® POLI-JOINT-FILL. After the sealer has cured sufficiently to keep sand from sticking to the sealer, spread ANCIENT STONE® POLI-JOINT-FILL onto the surface of the paving materials and begin broom sweeping into the joints until the joints are filled just below the surface of the paving materials. Follow the instructions which include sweeping the surface thoroughly and wetting the filled joints with water by hosing off the paving materials which also removes any latent "POLI" dust from the paving surfaces.

POST – SEALING

Following the filling and cleaning of the paving materials, “Post Seal” the paving materials with a final coat of ANCIENT STONE® PENETRATING SEALER. This will complete the installation and provide a durable water resistant surface for appearance and ease of maintenance.

CARE AND MAINTENANCE

The finished installation of ANCIENT STONE® paving materials can be easily cared for by either broom sweeping or hosing with a water spray. DO NOT USE A HIGH PRESSURE POWER SPRAYER ON SURFACE OF STONE AS IT MAY LEAD TO DEGRADATION OF THE STONE SURFACE.

- Broken or permanently stained paving materials can be easily removed and replaced as needed.
- Largely an exterior product, ANCIENT STONE® paving materials will require re-sealing on an annual basis or as desired and/or needed based on use and exposure.
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INSPECT ALL PRODUCTS PRIOR TO INSTALLATION. DO NOT INSTALL ANY MATERIAL IF YOU HAVE ANY QUESTIONS. CALL FOR VERIFICATION OF CONCERNS FIRST. ANCIENT STONE® BY VASILIOS WILL NOT BE RESPONSIBLE FOR ANY MATERIAL, ONCE INSTALLED.