



### Product Description

A dry mix of crushed limestone, white Portland cement, sand, and various polymers, integrally colored using powdered mineral oxide pigments. It is suitable for interior, exterior, vertical and horizontal applications, wet locations such as shower surrounds and water features such as fountains. Product is available in 15 standard colors and can be custom colored to match virtually any color.

### Uses

- As a decorative coating that replicates the look of quarried stone or other stone-like finishes.
- Coating EPS foam shapes and panels.
- Creating cast elements using EPS, rubber, or other molds.
- For poured in place or cast countertops.

### Packaging

50 lb. bag

### Coverage

One 50 lb bag will cover 15 sq. ft. @ 3/8" thickness.

### Limitations

Do not apply to unstable or unapproved substrates such as asphalt. Do not apply directly over elastomeric or acrylic EIFS type finish coats. Do not apply directly to wood, GFRC, PVC, ABS, urethane, or other plastics. Do not apply to sheet metal or other metal or steel (metal lath, grounds and reglets are acceptable for direct contact).

### Technical Data

#### Application

Product is usually applied by trowel using a two-coat application method. It can also be sprayed and then back troweled.

#### Climatic and Environmental

Apply only if temperature is over 40°F (4.5°C) and rising, and less than 100°F (38°C). Do not apply to frozen or thawing substrates. Use sun shades and wind screens to protect material during initial cure. Unless work can be adequately protected from direct contact with precipitation, do not apply if precipitation is expected within 48 hours of application.

#### Substrate Preparation

**ArcusStone Bonding Agent is required for most ArcusStone material applications.** Thoroughly review the ArcusStone Substrate Preparation Section for the use of Bonding Agent. Do not use Bonding Agent for ArcusStonecoat over concrete on grade, retaining walls, or horizontal wet location applications where block pattern joints are to be left without a backfill of material in the joints. Refer to Section 3 in the ArcusStone Technical Manual and Section 2 in the ArcusStone Application Manual for detailed substrate preparation requirements for the substrates listed.

### Mixing

Material is typically mixed using 5 or 6 gallon plastic buckets. Place 3.5 qts. (14 cups) of water or water / admixture solution in a clean plastic bucket, add pigment to water, then gradually blend in dry material, adding small amounts of water until mix achieves a working consistency. Let material set for 15 minutes, then remix for 90 seconds before using. Refer to Section 3 of the Application Manual for further instruction on usage of liquid additives, fibers, and mixing using a mechanical mixer.

### General Application Procedures

Two coats are required to achieve the 3/8" thickness when using a trowel. Apply first coat to an approximate thickness of 3/16", with moderate trowel pressure, and allow to take up until firm enough to not leave a significant depression when pressed with fingertips. Apply second coat with less trowel pressure, to a total application thickness of 3/8". After second coat has taken up similar to first, material is ready for finishing. Refer to Section 3 Finishing Techniques in the Application Manual.

### Clean Up

Immediately clean tools and inadvertent applications with water and scrub brush, rinsing with clean water. If allowed to dry, mechanical means may be necessary to remove material.

### Maintenance and Sealing

Product is required to be sealed with a water repellent type penetrating sealer when installed on exteriors in extreme climate areas subject to higher freeze/thaw cycles, or higher and more constant UV exposure, or higher altitudes, or higher humidity, subtropical and tropical locations. It is also required to be sealed with a penetrating water repellent type sealer when installed in wet locations, water features, countertops, and all exterior horizontal applications. An additional application of a commercial grade top coat sealer is strongly recommended for countertops, Bar-B-Q tops, bath, kitchen, garage floors, driveways, walkways, patios, and other applications where it is anticipated that there will be heavier exposure to grease and staining from other sources. It is also strongly recommended but not required to seal all other exterior applications to help ensure protection from efflorescence formation due to damp rainy environments, UV light fade, graffiti, caustic chemicals, or staining from acid rain, tree sap, bird or animal droppings.

### Storage

Store on pallets under cover, not exposed to weather. Do not stack more than 2 pallets high. Do not allow contact with liquids or precipitation. Store in a cool place out of direct sunlight.

### Shelf Life

Rotate stock. Product has a 1 year shelf life in unopened bags from stamped date of manufacture.

### Warranty

ArcusStone Products LLC warrants that at the time of product shipment it will be in conformance with current published specifications for said product. Extended Warranties of 5, 7, and

10 years may be available, specific to a project, and upon review and approval of required documentation. Contact ArcusStone Technical Services for further information.

**Technical Support**

For questions concerning this product or its use, contact ArcusStone Technical Services at (415) 339-4060.

**ArcusStonecoat™ Test Results**

Test Conducted	Results	Standard
Compressive Strength, psi 7 Day - 4316	28 Day -5805	ASTM C-109
Flexural Strength, psi 7 Day – 846	28 Day -1043	ASTM C-348
Tensile Strength, psi 7 Day - 409	28 Day -561	ASTM C-190
Coefficient of Friction Dry - 0.90      Wet – 0.87 Frictional Force, lbf (1)		ASTM C1028
Freeze/Thaw (2) Under 5X magnification, there was no indication of cracking, checking, or crazing	ICC-ES AC-11	Section 4.2
Water Resistance (3) Slight color change, no blistering, crumbling or disintegration.		ASTM D870-02
Water Vapor Transmission (4) 3 Perms at a rate of 19 grams/m2/24 hours		ASTM E96-00
Non combustibility (5) Passed – no burning		ASTM E136-04
Flame Spread / Developed Smoke (6) 0 Flame 0 Developed Smoke		ASTM E84-07

(1) Rougher surfaces have higher values. Most dry materials in combination have friction coefficient values between 0.3 and 0.6. A zero value would mean no friction. Teflon® has a coefficient of 0.04. Rubber can yield coefficients from 1.0 to 2.0.

(2) Samples subjected to 10 freeze/thaw cycles consisting of air drying at 120°F for 8 hours, total immersion in water at 70°F for 8 hours, then exposure to -20°F for 16 hours.

(3) Specimens were immersed in 100°F water to approximately ¾ of their length for 24 hours, and then observations were made.

(4) Water vapor transmission is comprised of Permeability, which is the *rate* at which water vapor will pass through a material, and Permeance (perms), which is how the results of vapor transmission (permeability) are measured. The lower the number, the less vapor will come through.

(5) Samples subjected to vertical tube furnace temperatures of 1382 degrees F. Test criteria included the requirement that there shall be no flaming from the specimens after the first 30 seconds.

(6) This test procedure comparable to UL 723, ANSI/NFPA No. 255, and UBC No. 8-1.