

Arcus CementPlaster™

Product Data Sheet
9-1-18



ArcusStone®

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 overhead horizontal applications. Product is available in 15 standard colors and can be custom colored to match virtually any color. It has a naturally occurring subtle movement in coloration and is infinitely variable in texture.

Uses

- As the color coat for 3-coat plaster, or over an EIFS type basecoat
- Coating EPS foam shapes and panels
- Interior accent walls and ceilings

Packaging

50 lb. bag

Coverage

One 50 lb bag will cover 20-25 sq. ft. @ 3/16 to 1/4" 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). Do not use on horizontal surfaces subject to vehicular or pedestrian traffic, or in water features or wet locations such as shower surrounds.

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. Refer to the ArcusStone Technical 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 quarts (14 cups) of cool potable water in a clean plastic bucket
- Add pigment to the water
- Blend in dry material gradually, using a low speed mixing drill.

Add small amounts of clean water, up to 10 quarts, to a desired consistency. Let material set for 15 minutes, and then remix for 90 seconds before using. Refer to the Application Manual for further instruction on the use of liquid additives, fibers, and mixing using a mechanical mixer.

General Application Procedures

Two coats are required to achieve the 3/16" to 1/4" thickness when using a trowel. Apply first coat to an approximate thickness of 1/8", 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 3/16" to 1/4". After second coat has taken up similar to first, material is ready for finishing. Refer to 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 must be sealed with ArcusStone Water Repellent Penetrating Sealer.

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.

Technical Support

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

ArcusPlaster™ Test Results

<u>Test Conducted</u>	<u>Results</u>	<u>Standard</u>
Compressive Strength, psi 7 Day - 3659	28 Day -4102	ASTM C-109
Flexural Strength, psi 7 Day – 1100	28 Day -988	ASTM C-348
Tensile Strength, psi Day - 353	28 Day -492	ASTM C-190 7
Freeze/Thaw (1) Under 5X magnification, there was no indication of cracking, checking, or crazing	ICC-ES AC-11	Section 4.2
Water Resistance (2) Slight color change, no blistering, crumbling or disintegration		ASTM D870-02
Water Vapor Transmission (3) 3 Perms at a rate of 19 grams/m ² /24 hours		ASTM E96-00
Non-combustibility (4) Passed – no burning		ASTM E136-04
Flame Spread / Developed Smoke 0 Flame 0 Developed Smoke		ASTM E84-07(5)

(1) 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.

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

(3) 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.

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

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