



ArcusStone

Architectural Limestone Coatings

ArcusStonecoat™ Test Results

<u>Test Conducted</u>	<u>Standard</u>	<u>Results</u>	
Compressive Strength, psi	ASTM C109	7 Day - 4316	28 Day -5805
Flexural Strength, psi	ASTM C-348	7 Day - 846	28 Day -1043
Tensile Strength, psi	ASTM C-190	7 Day - 409	28 Day -561
Coefficient of Friction Frictional Force, lbf (1)	ASTM C1028	Dry - 0.90	Wet – 0.87
Freeze/Thaw(2)	ICC-ES AC-11 Section 4.2	Under 5X magnification, there was no indication of cracking, checking, or crazing	
Water Resistance(3)	ASTM D870-02	Slight color change, no blistering, crumbling, or disintegration.	
Water Vapor Transmission(4)	ASTM E96-00	3 Perms at a rate of 19 grams/m2/24 hours	
Non combustibility (5)	ASTM E136-04	Passed – no burning	
Flame Spread/Developed Smoke	ASTM E84-07(6)	0 Flame 0 Developed Smoke	

(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 degrees F for 8 hours, total immersion in water at 70 degrees F for 8 hours, then exposure to -20 degrees F for 16 hours.

(3) Specimens were immersed in 100 degree 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.

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