



ADVANCED POLYMER, INC.

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AP-0280

AP-0280 is a reactive silicone copolymer emulsion that does not require a catalyst for application. AP-0280 is a self-curable polymer that provides excellent water repellency on architectural substrates. Due to its unique functionality AP-0280 will provide superior performance.

CHARACTERISTICS

- May be formulated into surface coatings/finishes for porous and nonporous building materials.
- Protects wood, brick, cinder block, stucco, etc. from excessive weathering.
- Prevents water staining.
- Provides wear resistance.
- Non-yellowing - assures color stability.

APPLICATION

A 4% to 5% active (solids) emulsion of AP-0280 is recommended for application.

To produce a 5% active emulsion:

%	Procedure
	*** Assure that AP-0280 is uniform in the drum. ¹ ***
93.75	Add water at 60°F to 80°F to the vessel.
6.25	Add all AP-0280 to the vessel (material should be stored between 50°F and 90°F) .
-	Turn mixer on slow speed. ²
-	Mix until uniform, no pieces.
-	Adjust the pH to 5.0 using acetic acid.
-	Turn off mixer.
100%	Unload vessel
Notes:	<p>1 If separation or breakdown of the gel phase has taken place, consult Advanced Polymer, Inc. before using.</p> <p>2 Elevated process temperature and/or excessive mixing may cause emulsion to split.</p>

The prepared mixture may be brushed or sprayed onto the surface to be protected. Allow to air dry for 24 hours before contact with water is made.

TYPICAL PROPERTIES

Appearance:	Clear to slightly hazy gel
Solid Content:	80%
pH:	7.0
Carrier Solvent:	Dispersible in water
VOC:	~1.7%
Specific Gravity(@ 25°C):	1.01

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 Carlstadt, NJ 07072
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TEST DATA:

CTL Construction Technology Laboratories, Inc.

**5420 Old Orchard Road, Skokie, Illinois 60077-1030
708/965-7500 800/522-2CTL Fax: 708/965-6541**

November 16, 1995

Water Penetration Testing of Clay Masonry Walls Treated With AP-02-80 Penetrating Sealer

We have completed water penetration testing of masonry walls treated with "AP-02-80" penetrating sealer, submitted by you on August 24, 1995.

Testing was conducted in accordance with ASTM E 514-90, "Standard Specification for Water Penetration and Leakage Through Masonry." The referenced test was performed on three wall specimens built with facing clay brick units. The wall specimens were fabricated by a professional mason, utilizing commercially available materials. After 7 days curing under polyethylene cover, followed by 7 days air curing, exterior faces of the specimens were subjected to a combination of water flow and air pressure that would simulate the effect of wind-driven rain at 62.5 mph. The specimens were tested in this manner for 4 hours.

Initial testing was done in order to determine the water leakage rate through untreated walls for reference purposes. Upon completion of initial testing, the walls were allowed to air-dry in the laboratory for 7 days. After air-drying, all three walls received a flood coat of "AP-02-08" penetrating sealer. Per your instruction, the penetrating sealer was prepared in our chemical laboratory by mixing 5% by volume of AP-02-80 concentrated gel with 95% water. Resulting application rates for all specimens are presented in the attached table.

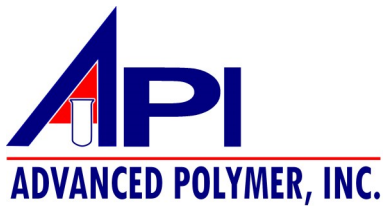
After application of the sealer, the walls were permitted to air-dry for another 7 days, and then tested for water penetration in the previously described manner. Each wall specimen was carefully monitored during the entire test duration. Water penetration data for all the specimens are presented in the attached table.

If you have any questions regarding the test results or require any further assistance, please do not hesitate to call.

CONSTRUCTION TECHNOLOGY LABORATORIES, INC.

Val S. Dubovoy, P.E.
Principal engineer
Materials Research and Consulting

050825



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Water Penetration Characteristics of Clay Masonry Wall
Specimens Treated with AP-0280 Penetrating Sealer*

Wall Specimen	Sealer Treatment	Applica- tion Rate (sq.ft./gal.)	Average Leakage Rate (l/hr)		Reduction in Leakage Rate (%)
			Before Sealer Application	After Sealer Application	
1	AP-0280 (5% Solution)	108	5.68	0.87	84.7
2	AP-0280 (5% Solution)	110	6.47	1.74	73.1
3	AP-0280 (5% Solution)	102	7.72	2.10	72.8
Average		107			76.9

Determined in accordance with ASTM E 514-90, "Standard Test Method for Water Penetration and Leakage Through Masonry."

050825

November 15, 1995
Construction Technology Laboratories, Inc.

PACKAGING

AP-0280 is available in 8 oz. samples and 441-lb. drums

STORAGE

Protect AP-0280 from freezing. Perishable if frozen.

Advanced Polymer, Inc.

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I want to know more!

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You may also be
interested in . . .

- APS-328
- APS-222
- AP-0282

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Revised August 5, 2019