



ADVANCED POLYMER, INC.

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APS-236 Emulsion

APS-236 Emulsion is a organo-modified siloxane emulsion designed for use as a penetrating and durable water repellent for concrete, grout, stucco, split-face block, brick, natural stones etc.

CHARACTERISTICS

- Superior water repellency for various substrates.
- Low dilution levels required for maximum performance.
- Chemically bonds to the treated substrate preventing potential damage from repeated freeze/thaw cycles.
- Excellent storage stability. Freeze/thaw stable and elevated temperature (50°C) stable.
- No change or slight change in surface appearance
- Can be used in admixtures for cementitious products

APPLICATION & FORMULATION

- Substrate should be clean and free from any contaminants (dust, dirt, oil, grease, curing compounds, paint/coatings, efflorescence, etc.) before applying APS-236 Emulsion.
- Dilute product to 5–10wt% depending on the intended use in water (preferably de-mineralized) and stir at low shear.
- Two coats of the dilution should be applied wet-on-wet (approximately 15–20 minutes in between coats) to ensure the best coverage. Do not allow second coat to pool or puddle on treated surface.
- APS-236 Emulsion can be applied by brush, roller, spray or dip.
- A minimum of 24 hours should be allowed before treated surface comes in contact with water. Maximum water repellency will occur approximately 48–72 hours after application, depending on the curing conditions.

PERFORMANCE DATA & RESULTS

Water Absorption Testing (see next page)

TYPICAL PROPERTIES

Appearance:	Milky white to opaque liquid
Active Content:	40%
Ionic Character:	Nonionic
Specific Gravity (@ 25°C):	1.0
pH:	5.0
VOC (g/L):	<100

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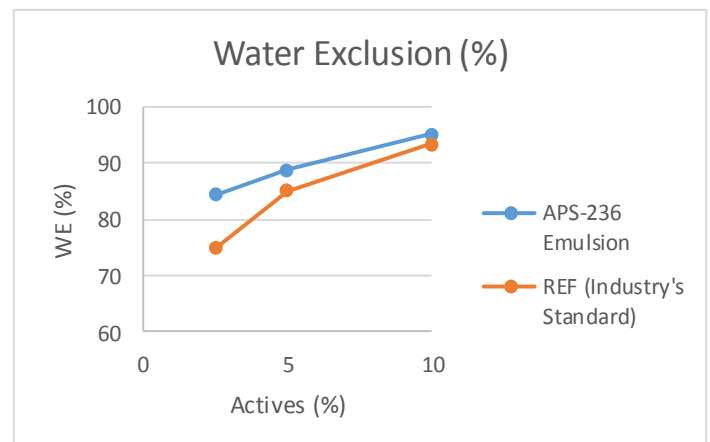
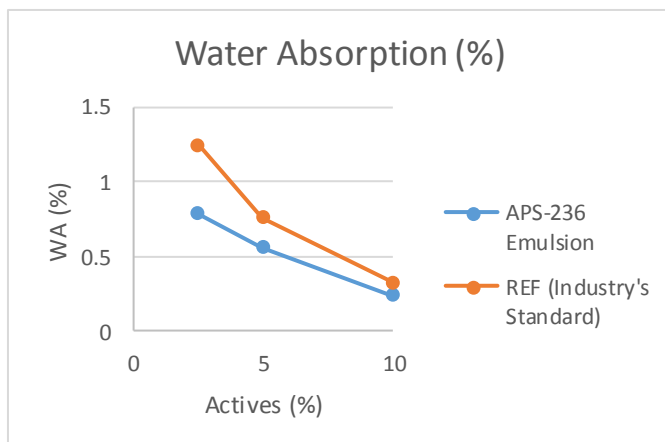
APS-236 Emulsion

Clear Water Repellent Treatments on Water Absorption of Hydraulic Cement Mortar - Report

Method of Evaluation:

ASTM D6532-00 (modified)

- All tests are run in triplicate samples for each water repellent treatment including three untreated control samples for each series.
- Substrates needed are brushed, cleaned and free of loose material that may be lost and alter the weight or the absorption characteristics. Mortar cubes are dried and conditioned at $110 \pm 5^\circ\text{C}$ until a constant weight has been reached.
- Specimens are coated by immersing in ready to use solution for 30 seconds, let drip for 10 seconds, flipped and immersed back in the solution for another 30 seconds.
- Cubes are cured at standard room temperature and humidity as specified in D3924, for 7 days to ensure a constant weight is reached.
- To test for water absorption, specimens are immersed in the water by keeping 2in above the top side of the cubes for 24 hours at $25 \pm 2^\circ\text{C}$ and allowing them to sit off the bottom of the pan and be in contact with water on all sides.
- After being removed the from the water, specimens are blotted with damp cloth to remove excess water and weighed immediately. Calculate Water Exclusion and Water Absorption. (SEE RESULTS BELOW)



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