

# INTEGRAL WATER REPELLENT FOR CONCRETE MASONRY UNITS AND CONCRETE PRODUCTS

## ASTM E-514



FOR MASONRY

### DESCRIPTION

AquaShield is a liquid integral water repellent for use in concrete masonry units and mortar. It is designed to provide reduced water penetration and efflorescence. AquaShield chemically reacts with Portland cement to make concrete less water absorbing throughout the entire thickness of the unit. In addition, AquaShield's special wetting agents act as plasticizers improving mix dispersion, flow and unit density resulting in units with higher compressive strengths, lower water absorption, less shrinkage, improved appearance and reduced efflorescence potential.

AquaShield is a non-chloride, non-corrosive admixture that aids in color development and reduces the need for surface sealers. Production is efficiently increased with less cracking, less crazing and fewer culls, as a result of lubrication properties reducing mechanical abrasion thereby increasing life cycles of mold boxes and wearing parts.

AquaShield can be used in any concrete product to reduce water permeability, reduce efflorescence potential, increase and maintain color vibrancy while improving durability.

### ADVANTAGES

- Reduces absorption and capillary migration
- Reduces efflorescence potential
- Improves color intensity
- Higher compressive strength
- Increases density
- Reduces shrinkage

### PERFORMANCE

Testing was conducted by the Research and Development Laboratory of the National Concrete Masonry Association (NCMA) to evaluate the performance of concrete masonry units with Chemstrong AquaShield Integral Water Repellent. The water repellency testing was done in accordance with ASTM E514, "Standard Test Method for Water Penetration and Leakage Through Masonry." Walls with Chemstrong AquaShield had no water penetrating the wall face shell under pressure. Furthermore, no water was collected on the top flashing pan for these walls indicating that no water migrated across the block webs to penetrate the opposite wall face. Test results available upon request.

### DOSAGE RATES

Recommended dosage rate for architectural block is 16-24 ounces per hundred weight of cement.  
Recommended dosage rate for pavingstones is 4-10 ounces per hundred weight of cement.  
Recommended dosage rate for segmental retaining walls is 12-24 ounces per hundred weight of cement; however, for optimal freeze-thaw durability a dosage rate of 16-24 ounces per hundred weight is recommended.  
AquaShield should be added at the end of the mix cycle.  
For recommendations, contact your Great Eastern Technologies representative.

### PACKAGING

Bulk, totes, 55-gallon drums, 5-gallon pails

### STORAGE AND HANDLING

Protect from freezing and exposure to direct sunlight.



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4407 South Broad Street  
Yardville, New Jersey 08620

Phone 1-888-452-9348  
Fax 609-581-0735

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KEEP OUT OF REACH OF CHILDREN.  
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FOR INDUSTRIAL USE ONLY.  
CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION.**

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