



PEREGRINE CHEMICAL

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AquaShield™ Protection System

Product information:

AquaShield™ is a non-chloride, non-corrosive, polymer admixture for concrete masonry units (CMU) and mortar that becomes an integral part of the Portland cement binder. It reduces moisture penetration and efflorescence while at the same time allowing the wall to breathe.

Benefits:

- Improves mix flow and compressive strength from a specially formulated mixture of wetting agents and plasticizers
- Improves finished CMU densities resulting in reduced crazing as well as reduced culls
- Improves durability as well as final color of the masonry units over conventional walls constructed without AquaShield™
- Improves equipment efficiency as well as reducing equipment wear due to the lubricating properties of AquaShield™
- Improves moisture protection and freeze thaw resistance of the masonry unit as well as enhancing capillary absorption protection

Recommendations:

AquaShield™ is recommended for use in the production of all Concrete Masonry Units (CMU) and in all site prepared mortars.

Dosage:

The recommended AquaShield™ dosage rate for CMU production will vary depending on the cement content. In addition the desired performance expected from the CMU as it relates to compressive strength, durability, water absorption and efflorescence protection will further determine the recommended dosage rate. Each manufacturer should run trial mixes to determine the right dosage rate in order to achieve the desired finished product's performance. While dosages of six to 12 ounces per hundred weight of cementitious materials have given satisfactory results, up to 32 ounces may be required for optimal performance based on the quality of the mix materials and the mix proportions.

Directions for use:

AquaShield™ should be added during the batching process after at least 90 percent of the water has been added and no less than 90 seconds before the end of the mix cycle. Mixing time can vary depending on the efficiency of the mixer.

AquaShield™ should be added to the mortar mix after all the water is introduced and no less than 90 seconds before the end of mixing.

Do not apply AquaShield™ to the cured CMU or to the dry mortar.

Avoid use of strong acids, aggressive sandblasting techniques or high pressure cleaning methods on Concrete Masonry Units and mortars treated with AquaShield™.

Packaging and storage:

AquaShield™ is available in one gallon and five gallon pails, 55 gallon drums, 250 gallon totes and in bulk. AquaShield™ should be stored in a dry area where temperatures are maintained between 45 F (7 C) and 100 F (38 C).