



CONCRETE MASONRY CONSTRUCTION

HYDRAPEL ADMIXTURE SYSTEM



ATTRIBUTES & CONSIDERATIONS

Concrete masonry is a popular form of construction for a variety of reasons. There's wide-ranging design flexibility, durability and fire resistance, and attractive life cycle cost among others. Single-wythe designs present a streamlined and economical alternative to lesser performing systems. Schools, offices, strip malls and big-box retail stores use this form of construction for cost control and speed of construction. Since single-wythe walls (as opposed to cavity or composite ones) separate the building's interior from the external elements – moisture control and management is a necessary design consideration. This is addressed in a few different ways. Topical treatments such as coatings and sealers are effective until they are breached, or are in need of re-application. In other words, a maintenance schedule of some sort is required. Another approach uses water repellent admixtures in the production of the block and the associated masonry mortar. These products are marketed as systems and often make the same claims though there's a range of chemistries and levels of "synergy" between their block and mortar (admixture) counterparts.

HYDRAPEL TECHNOLOGY

ADVANCED CHEMISTRY, OPTIMIZED SYSTEM PERFORMANCE

All water repellent admixtures are not created equal. Some are more hydrophobic than others. Some are more stable in long-term performance than others. Others can impose changes in wall construction timing and procedures. Some can interfere with mortar bond integrity.

HYDRAPEL admixtures are perhaps the industry's most stable and highly water repellent types available. They assist the block producer in making uniformly dense and water-tight concrete masonry units, and the mason contractor in applying the skills and craftsmanship for a successful project.

Individually, HYDRAPEL block admixtures and HYDRAPEL Mortar Admixture are formulated to exceed industry performance standards. Used together, the HYDRAPEL SYSTEM provides a level of protection that is second to none.

HYDRAPEL SYSTEM PERFORMANCE

- Excellent, "E-Rated" performance when tested by the National Concrete Masonry Association per ASTM E514 Standard Test Method for Water Penetration and Leakage Through Masonry
- HYDRAPEL Mortar Admixture meets the performance criteria of ASTM C1384 Standard Specification for Admixtures for Masonry Mortars (Water Repellent and Bond Enhancer)

OTHER BENEFITS

- Greatly reduced potential for efflorescence
- Improved color integrity and retention
- Resistance to common surface staining

HYDRAPEL CERTIFICATION PROGRAM

Euclid Chemical determines optimal block admixture dosage rates using industry standard test methods and pass/fail criteria detailed in NCMA TEK 19-7 Characteristics of Concrete Masonry Units with Integral Water Repellent. These records are kept on file and periodic recertification is required by plant location.