



## The BLOCKTITE SYSTEM

### For Water Repellent – Specified Concrete Masonry Construction

The BLOCKTITE SYSTEM is comprised of two individual liquid admixture types – one for use in the manufacture of concrete block, and the other is added to the masonry mortar as produced at the job-site. Properly used, these polymers significantly modify the wetting characteristics of cement-based materials. This provides resistance to wind-driven rain, capillary absorption (or “wicking”), and the unsightly occurrence of efflorescence staining.

In recent years the industry has developed standardized test methods and performance criteria that uniformly address water repellency for masonry construction. These tools are used by admixture suppliers and their block producer customers and can be referenced within TEK 19-7 from the National Concrete Masonry Association and other sources. The other key component of the BLOCKTITE SYSTEM is the BLOCKTITE Certification Program. This collaborative effort optimizes and documents mix designs, admixture dosage rates, manufacturing practices, and quality assurance measures per production site and unit classification (normal, medium, and lightweight block).

The modular nature of concrete masonry construction requires attentive design and execution. Proper proportioning/mixing of masonry mortars (per ASTM C270), and installation of flashing, weeps, and wall vents is essential to the overall protection afforded by the BLOCKTITE SYSTEM. These guidelines are widely available from a variety of sources, including NCMA. As an added line of defense, CHEMSTOP W.B. (Heavy Duty) may be applied to walls utilizing the BLOCKTITE SYSTEM. This is a water-based silane/siloxane sealer that does not alter appearance. The strong water shedding properties imparted by CHEMSTOP W.B. (Heavy Duty) will promote faster drying after a rain. This provides added protection against crack-induced leakage, mold & mildew, soil staining, and later-age secondary efflorescence.

The BLOCKTITE SYSTEM provides long-lasting protection that goes above and beyond what surface-only treatments can provide. Cement-based materials have a natural affinity to draw, wick, and transport moisture if surface protection is breached. The BLOCKTITE SYSTEM effectively disrupts such tendency and maintains this protection throughout for the life of the structure. When tested in accordance with ASTM E514, the BLOCKTITE SYSTEM achieved an “E Rating” (excellent through 72-hours testing).