RainBloc® Complements Good Design and Construction

A complete water repellent system emphasizes proper masonry design, details, and implementation. Although the RainBloc® Integral Water Repellent System provides excellent rainwater penetration resistance, it should not replace proper flashing, weep holes, and control joints in masonry construction.

The designer must provide the mason contractor with detailed illustrations of adequate flashing, weep holes, and control joints.

RainBloc® for Concrete Masonry Units - CMUs

RainBloc® for CMUs is a liquid admixture used in the production of concrete block to ensure water repellency. An automated dispensing system injects the RainBloc® liquid admixture into each mixture of concrete during the masonry unit manufacturing process.

Water Repellency Certification Using the RainBloc® Spray Bar Test Method

The RainBloc® Spray Bar Test Method subjects individual concrete masonry units to continuous water pressure from a standardized spray bar at a rate of 120 gallons of water per hour.

After four hours of continuous exposure, each unit is evaluated using standardized rainfall criteria. This test method correlates well with ASTM E 514.

A producer’s concrete masonry units must pass this rigorous test to be a certified RainBloc® producer.

Performance Report

The CMU producer receives a RainBloc® Certification Report upon successful completion with the water repellency performance criteria established by ACM Chemistries, Inc. This report provides evidence to specifiers about the performance and certification of compliance for the water repellent units made by the manufacturer.

Each certified RainBloc® producer receives a performance report that includes:

• RainBloc® Spray Bar Test Method results
• masonry unit physical properties
• certificate of performance

Daily Quality Assurance Testing

A selection of the daily production of water repellent masonry units must be tested for water repellency within 48 hours of manufacture, before they are exposed to dust and dirt. Concrete masonry units stored outdoors may become coated by dust and dirt, which prevents water from beading on the surface. Note: Even when coated with dust and dirt, the concrete masonry units still should resist water absorption although water may not bead on the surface. In other words, the units are still highly water repellent.

An ACM Chemistries technical service representative is always available for assistance with setting up the testing program.

Maintaining Certification

Upon certification, a masonry unit producer must continue to meet the following conditions:

• Masonry unit producer certification is valid for one year from the date of certification.
• Should be certified every twelve months for each concrete mix design (excluding a change of pigment) used with RainBloc® in manufacturing water-repellent, concrete masonry units.
• Must be certified again for changes to the concrete mixture proportions or raw materials to stay in compliance.
• Simple, quality control procedures recommended by ACM Chemistries, Inc., must also be used by the RainBloc® certified producers to ensure that water repellency parameters are being met on a consistent basis. The producer, purchaser, and specifier can be confident that the water repellent units will effectively resist water penetration.

RainBloc® for Mortar

RainBloc® for Mortar is a liquid admixture used at the masonry construction site to make mortar. RainBloc® for Mortar should be used with all concrete or clay masonry units in exterior masonry wall construction.

RainBloc® for Mortar Performance in ASTM Standards and Tests

RainBloc® for Mortar meets or exceeds the performance requirements for high quality mortar water repellent mortars when tested and evaluated according to ASTM C 1384, “Standard Specification for Admixtures for Masonry Mortars”.


Testing Procedure for Mortar Selections for Quality Assurance

RainBloc® for Mortar’s pre-measured containers make addition by the masonry contractor easy.

Directions appear on the side of each container and include the required amounts for each batch of mortar.

To verify the proper dosage for water repellency, the amount of RainBloc® for Mortar used per day should correlate with the number of mortar batches produced per day. This can be accomplished by counting the number of RainBloc® for Mortar containers used as well as the number of mortar batches produced each day. Your ACM Chemistries technical service representative is always available for assistance.

Technical Service and Support

ACM Chemistries employs the most knowledgeable and competent technical sales and support staff in the industry today.

Our knowledge of machine-made concrete products, including the material science of tens of hours, strongly used to manufacture those products, helps us optimize quality and performance, while reducing manufacturing costs for our customers.

We make sure that our staff retains expertise in concrete and masonry technology and best practices for providing technical services to our customers and the industry.
Our Company

ACM Chemistries, Inc. was founded by Dr. Marshall L. Brown and Mr. Theodore (Ted) G. Light. They have been involved in applied masonry research since 1981 when they studied water repellency of masonry wall systems using ASTM E 514, “Standard Test Method for Water Permeance of Masonry” under the guidance and direction of one of the most prominent masonry researchers in North America.

Dr. Brown and Mr. Light both serve on several National Concrete Masonry Association (NCMA) committees and subcommittees, including its Technical Committee and Water Repellency Task Group. In addition, both are highly involved with the ASTM committees and subcommittees developing the standards and test methods for Concrete Masonry and Mortar. For several years, Dr. Brown chaired the American Concrete Institute's Committee on Chemical Admixtures.

ACM Chemistries is an Atlanta-based organization dedicated to providing the best technical services and chemical additives to the concrete masonry industry.

We provide concrete technology training programs for our customers because we believe that beneficial knowledge should be shared.

We believe that knowledgeable customers, specifiers, and trade associations not only benefit from having such knowledge, but also help grow the concrete products market, enabling the production of the best products for customers.

Contact Us
Let ACM Chemistries, Inc. and RainBloc® work for you. Please call us (toll-free) at 1-877-226-1766.

ACM Chemistries, Inc.
P.O. Box 920430
Norcross, GA 30010
www.acmchem.com

*ACM Chemistries® and RainBloc® are trademarks of ACM Chemistries, Inc.