

## APPLICATION PROCEDURES



# ***MOXIE SHIELD 1900***

## ***GROUT & MORTAR WATERPROOFING ADMIX***

### PRODUCT OVERVIEW

MOXIE SHIELD 1900 Grout & Mortar Waterproofing Admixture is designed to waterproof and enhance cementitious grout and mortar construction. MOXIE SHIELD 1900 Grout & Mortar Waterproofing Admixture creates a complex chemical reaction by converting the by-products of cement hydration into a higher density cementitious material. The unique chemistry of MOXIE SHIELD 1900 Grout & Mortar Waterproofing Admixture forms an integral colloidal gel membrane prior to initial set. These colloidal gels prevent the formation of capillary pathways that would be formed as the fresh mix cures. The gels restrict the rapid evaporation of surface water and permanently convert into additional hardened cement material.

### NEED MORE HELP?

Please contact our technical support experts at [tech@moxieinternational.com](mailto:tech@moxieinternational.com) or call (844) 845-1975.

### MIXING PROCEDURES

IT IS HIGHLY RECOMMENDED THAT THE MOXIE TECHNICAL DEPARTMENT BE CONTACTED PRIOR TO USING MOXIE SHIELD 1900. 844-845-1975 OR [TECH@MOXIEINTERNATIONAL.COM](mailto:TECH@MOXIEINTERNATIONAL.COM)

#### DOSAGE RATE

16 oz per cwt (1040 ml/100kg) of cementitious materials. Include any other cementitious materials (such as fly ash) in the calculation.

Example 1: when mixing a batch with 1 bag of cement weighing 100 pounds, add 16 fluid ounces of MOXIE SHIELD 1900 Grout & Mortar Waterproofing Admixture.

Example 2: when mixing a batch with 1 bag of cement weighing 94 pounds, add 15 fluid ounces of MOXIE SHIELD 1900 Grout & Mortar Waterproofing Admixture.

Water/cement ratio: Do not exceed a 0.52 w/(c+p) ratio regardless of slump/workability.

#### MIXING

Moxie International always recommends trial batching when using additional admixtures

1. Start with a clean mixer.
2. Pre-blend the proper amount of MOXIE SHIELD 1900 Grout & Mortar Waterproofing Admixture with a minimum of 20% of the batch water.
3. Reduce batch water amount by the same amount of MOXIE SHIELD 1900 Grout & Mortar Waterproofing Admixture that was added. Workability will be enhanced due to the MOXIE SHIELD admixture. Batch water may need to be further reduced than expected.
4. Continue the batching process including cementitious materials, aggregates, remaining batch water and other additives. Do not use chloride-based set accelerators.
5. There are no special cleaning procedures required. Clean tools, mixer and pump as usual.