

# Quality Assurance Plan

## ConBlock MIC



### General Recommendations

- a) The mix design including ConBlock MIC shall be documented.
  - i. The materials used in the quantities per cubic yard (or cubic meter) of concrete shall be listed on the mix design record.
  - ii. The mix design record shall indicate the batch sequence for each material including mixing times.
  - iii. The lot number of the ConBlock MIC used shall be recorded.
  - iv. Batch records shall be retained for seven years.
- b) Concrete Sealants, Inc. shall review the mix design record and the batching sequence prior to making the first batch of concrete.
 

**Note:** This validation will assure that the materials and processes used by the producer will not impede the efficacy of the ConBlock MIC admixture (reference ConBlock MIC Compatible Additives List).
- c) The producer will complete a Certificate of Conformance to document that the batching process and required specifications for ConBlock MIC treatment were correctly followed.
- d) A Water Quality Analysis shall be provided with the Certificate of Conformance.
- e) If the producer chooses not to follow any of the steps (a) through (d) above, the producer shall add ConBlock MIC at the end of the batch cycle and mix for a minimum of five (5) minutes after addition. This shall be noted on the Certificate of Conformance.

### Optional, Additional Recommendations

**Option 1: Integral Colorant:** a colorant that shall be used integrally to tint the concrete. This colorant shall be added when used with ConBlock MIC to indicate treatment. The dye for integral application is available from Concrete Sealants, Inc.

**Option 2: Bacteria Inoculation Testing:** An antimicrobial efficacy test shall be conducted with the materials in the same volumes that are used in the mix design including ConBlock MIC. Disk samples of treated and untreated concrete from the producer shall be sent to a test lab, carbonated to a surface pH of 6.5 – 6.8, and tested using a modified ISO 22196 procedure. Bacterial reduction shall exceed 90% on treated samples, whereas the untreated samples shall exhibit an increase.

**Note:** The time-period of this testing should be considered before making it a requirement as testing too frequently may become impractical. See Bacteria Inoculation Testing for details.

*Don't Just Seal It, ConSeal It!*

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