

Batching and Mixing

MasterLife[®] 300 Series

Crystalline Capillary
Waterproofing Admixtures

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MasterLife® 300 Series Crystalline Capillary Waterproofing Admixtures

Product

MasterLife 300 Series admixtures are ingredients for concrete and are added during the production process.

Dosage

- The dosage of MasterLife 300D admixture is 2% by mass of cement with a minimum dosage of 12 lb/yd³ [7.1 kg/m³]

Example: Cement content = 600 lb/yd³ [356 kg/m³]

Calculation: 600 lb * 0.02 = 12 lb/yd³ [356 kg * 0.02 = 7.1 kg/m³]

- The dosage of MasterLife 300C admixture is 1% by mass of cement with a minimum dosage of 6 lb/yd³ [3.6 kg/m³]

Example: Cement content = 600 lb/yd³ [356 kg/m³]

Calculation: 600 lb * 0.01 = 6 lb/yd³ [356 kg * 0.01 = 3.6 kg/m³]

- The dosage of MasterLife 300L admixture is 1.25 gal/yd³ [6.2 L/m³]

Batching

- MasterLife 300 Series admixtures are batched at the concrete production plant in a manner similar to that for cement, other cementitious materials or admixtures
- They may be batched in either a central or truck mixer
- Follow the procedures outlined in ASTM C94/C94M, Standard Specification for Ready-Mixed Concrete, for general batching and mixing instructions for concrete.

Degradable Paper Bag Packaging

- MasterLife 300D admixture is packaged in degradable paper bags. The product can be added in one of two ways, a) whole bag along with its contents or b) the bag can be cut open and the contents added. The preferred method of addition is at the discretion of the user. A trial should be performed to ensure adequate mixing, proper bag degradation and the desired performance is achieved.

Water-Soluble Pod Packaging

- MasterLife 300C admixture is available in robust, convenient packaging increasing the ease of storage and batching, and significantly extending the product shelf life
- MasterLife 300C admixture is packaged in 6 lb [2.7 kg] water-soluble pods. The pods are placed in a sturdy 5-gal [19L] plastic pail. Each pail contains 8 pods for a total of 48 lb [21.8 kg] per pail
- The pods are easy and safe to load with no special requirements – aggregate belt, wash rack, central mixer or preloading

Dispenser Addition

- MasterLife 300L admixture is batched into concrete through very accurate, “Smart” dispenser systems available through Master Builders Solutions

Mixing

- Provide at least 5 minutes of mixing after the addition of MasterLife 300 Series admixtures to ensure thorough and uniform distribution of the admixture in the concrete mixture.

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