

For manufactured concrete products



Elemix concrete additive comprises innovative polymeric spheres that have been specially formulated for use in concrete. This additive distributes uniformly in concrete, providing lighter weight and enhanced durability in structural and non-structural applications.

BENEFITS

Specified Unit Weight

- Reduces overall building and transportation costs due to the concrete's lighter weight
- Enables concrete to be used in new applications

Enhanced Durability

- Increases the life of the concrete structure, reducing long-term costs

Product/Performance Consistency

- Reduces variability in concrete mixtures due to tight manufacturing tolerances, which result in consistent performance properties, regardless of geographic location

TECHNICAL BASICS

Elemix concrete masonry units meet or exceed the following:

ASTM C90

Specification for Structural Concrete Masonry Units

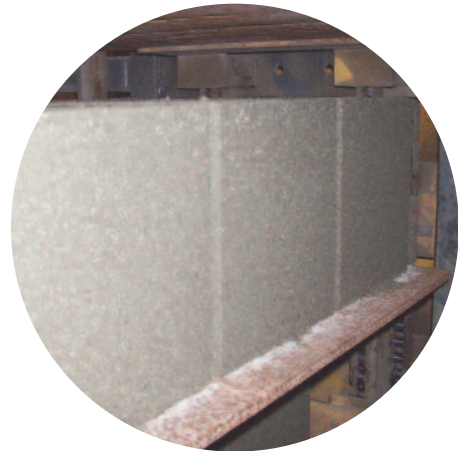
ASTM C140

Sampling and Testing Concrete Masonry Units

Requirements	Medium Weight CMUs	Lightweight CMUs	Elemix Additive Block
Comprehensive Strength	1900 psi Net Area Strength	1900 psi Net Area Strength	Exceeds Requirements
Moisture	15 PCF	18 PCF	Exceeds Requirements
Unit Weight	105–125 PCF	<105 PCF	Exceeds Requirements
Dimensional Tolerances	plus or minus 1/8 inch	plus or minus 1/8 inch	Exceeds Requirements

Elemix additive has been shown to meet or exceed the requirements for ASTM C90 for medium and lightweight concrete masonry units. Elemix additive should be trialed at each block facility to understand how it affects the physical and structural properties of concrete masonry units.

Depending on aggregates and loadings, Elemix concrete additive was able to achieve the following results during a series of field tests.



BLOCK WEIGHT

22.95 to 34.79 pounds

ABSORPTION

7 to 13.13 PCF

COMPRESSIVE STRENGTH

2120 to 4240 psi



DENSITY

Elemix additive achieved the requirements for lightweight and medium weight concrete masonry units.



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Sales Office

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For trial and qualification purposes, Elemix concrete additive is delivered in pre-weighed packages. For ongoing commercial use, a customized delivery system can be installed to meet individual needs.

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