

## PRODUCT DATA SHEET

# BLOCKMAXX – MM1

### PRODUCT DESCRIPTION

**BlockMaxx-MM1** is a high-range water-reducing admixture powered by CR Nano's Pristine Graphene Nanoplatelet technology. Utilizing our patented Pristine Graphene—an ultra-high purity carbon material arranged in a hexagonal lattice—**BlockMaxx-MM1** enhances the concrete's performance by delivering unparalleled strength, durability, and workability. Graphene is renowned for its space-age properties, being 100 times stronger than steel, 10 times more conductive than silver, and super hydrophobic. These unique characteristics reinforce concrete at the molecular level, significantly improving compressive and tensile strength, allowing for cement reduction. **BlockMaxx-MM1** optimizes water permeation into the cement and pore regions of the concrete creating a denser stronger concrete masonry unit.

**BlockMaxx-MM1** is engineered for proven performance and reliability in modern construction applications. Elevate your projects with **BlockMaxx-MM1**—where nanotechnology meets next-generation concrete performance.

### USES AND APPLICATIONS

**BlockMaxx-MM1** is designed for use in the production of Concrete Masonry Units (CMU's). Compatible with concrete designs containing Portland Limestone Cement and supplementary cementitious materials.

- Standard concrete block
- Retaining wall and geotechnical block
- Decorative and colored pavers
- Fire rated block
- Cement headers and structure members
- Split faced block



### KEY BENEFITS

- Up to 35% cement reduction
- Reduced absorption after cure
- Lower Co2 footprint
- Increased compressive Strength
- Increased flexural strength
- Improved finish/QC
- Lower water/cement ratio
- Faster cure times
- Increased abrasion resistance
- Improved freeze-thaw resistance
- Reduced cracking
- Increased thermal dissipation during cure
- Reduction in machine wear during production

## PRODUCT PERFORMANCE

Packaging	Available in 55-gallon drums and 275-gallon totes
Shelf Life	1 year when stored in original packaging with constant agitation (mixing) in dry warehouse conditions with temperatures between 40°F and 80°F
Storage Conditions	Stored above 40°F and should not be allowed to freeze
Appearance / Color	Grey to Black Liquid
Density	Approx. 1.08 g/cm <sup>3</sup> (at 73°F)
Recommended Dosage	<p>The typical dosage rate of <b>BlockMaxx-MM1</b> will vary between 6-10 fl oz / 100 lb. of cement or cementitious materials. Various factors will affect the dosage rates.</p> <p>Trial mixes with the actual materials should be conducted to determine the required dosage for optimum performance. It is recommended to reduce the current water usage by 10% to start.</p> <p>To the extent specialized materials are used, extreme ambient temperatures are encountered, or for other unusual project conditions, dosage rates outside the typical range may be required. Please contact our technical team for assistance.</p>
Mixing	<p>Measure the required quantity manually or with an automated dispenser. Add <b>BlockMaxx MM1</b> to the concrete batching after the “pre-wet” cycle — do NOT mix with dry cement. When used in combination with other admixtures dispense each admixture separately into the mix.</p>

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY SEALED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL AND PROFESSIONAL USE ONLY

Before using any CR Nano product, users must read and follow all warnings and instructions provided on the most current product label, Product Data Sheet, and Safety Data Sheet, which are available at [www.CarbonRivers.com](http://www.CarbonRivers.com) or by contacting CR Nano’s Technical Service Department. No information provided in CR Nano literature or materials relieves the user of their responsibility to review and adhere to all safety and usage guidelines outlined in the current documentation.

CR Nano warrants this product to be free from manufacturing defects and to meet the stated technical properties on the current Product Data Sheet when used as directed within its shelf life. The user is responsible for determining the product’s suitability for the intended application and assumes all associated risks. The sole remedy for any claims shall be limited to a refund of the purchase price or replacement of the product, excluding any labor or additional costs. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, APPLY. CR NANO SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES UNDER ANY LEGAL THEORY. CR Nano is not responsible for any use of this product that may infringe upon existing patents or intellectual property rights.