GreenMax® Sustainable Cement Data Sheet

Product Overview

GreenMax® is formulated using patented technology. It is a specially formulated cement designed to enhance the longevity of concrete while reducing concrete's global carbon emissions. GreenMax® exhibits superior performance when compared to Portland Cement while maintaining 60% reduction in carbon emissions. Product testing has shown gains in strength, durability and improved working times.

Product Application

GreenMax® incorporates eco-friendly materials, such as industrial waste by-products and renewable resources. This sustainable solution not only helps decrease Carbon emissions but also enhances the durability of concrete. This makes GreenMax® a reliable choice for construction projects aiming to meet modern sustainability standards. With GreenMax®, builders can achieve high-performance concrete while supporting global efforts toward a greener and more sustainable future. GreenMax® can be used for a wide variety of projects including:

- **Structural Concrete:** Foundations, columns, slabs, and walls.
- **Precast Concrete:** Pavers, blocks, and architectural elements.
- **Masonry Mortar:** Brick and block construction.
- **Surface Bonding Mortars:** Stucco and shotcrete construction
- **Repair Mortars:** Suitable for patching and repair applications.
- **Thin Set Mortars:** Tile setting applications.
- **Underlayment and Overlays:** Self-leveling systems

Features & Benefits

- **Low Impact:** Reduces Portland Cement consumption by 60% by incorporating low impact supplementary cementitious materials
- **Superior Compressive Strength:** Higher overall compressive strength.
- **Comparable Plastic Properties:** Exhibits similar plastic properties to Portland Cement.
- **Cost-Effective:** Reduces maintenance costs by increasing the service life of structures.

Product Information

- **Packaging:** GreenMax® is available in bags which weigh 94 lb (42.6 kg)
- **Appearance:** Gray Powder
- **Shelf-Life:** Sealed packages remain viable for 12 months if stored in a dry environment that is in a temperature range between 40°F to 80°F. The environment should be free of airborne contaminants and out of direct sunlight exposure.

Technical Information

Dosage Rate:

- **Recommended Dosage:**
  GreenMax® can be used as a full or partial replacement depending on mix design.
- Adjust cementitious quantity based on project requirements.

Technical Support

For additional information, technical assistance, or to request samples, please contact:

Technical Support: Support@GreenMaxCement.com
Website: GreenMaxCement.com

Mixing Instructions

- Before mixing obtain appropriate PPE (gloves, goggles) for proper handling. Consult Safety Data Sheet (SDS) for detailed safety information.
- Concrete or mortar mixers to be used for GreenMax® addition shall be free of contamination.
- GreenMax® can be used as a full or partial replacement depending on mix design.
- All components of the concrete mixture should be added and mixed thoroughly.
- It is recommended to perform verification mixes in a laboratory to optimize the water/cement ratio needed for the concrete mix design. The final water/cement ratio for the concrete mixture is the obligation of the producer. GreenMax® is typically compatible with concrete admixtures.

Performance Testing

Blended Cement:
GreenMax® is qualified under ASTM C595 *Standard Specification for Blended Hydraulic Cements*

Performance of GreenMax®

Advantages	GreenMax	Portland Cement
Higher Compressive Strength	✓	X
Time of Setting	Comparable	Comparable
Lower Shrinkage	✓	X
Higher Corrosion Resistance	✓	X
Lower Permeability	✓	X

Sustainability of GreenMax®

Advantages	GreenMax	Portland Cement
Reductions in Carbon Emissions	60%	X
Reduction in Mixing Water	Up to 5%	X
Incorporates Waste Stream Materials	✓	X
Improved Durability	✓	X
Reduction in Energy Consumption	✓	X
Reduction in Long Term Costs	✓	X