

CEMENT & CONCRETE



This Changes Everything...

Universal Matter upcycles carbon into graphene and related advanced materials to boost the performance and sustainability of your innovations.

Fully Formulated Graphene-Based Solution

Our process delivers high quality, economical graphene and related advanced materials from simple carbon feedstocks enabling optimized solutions that enhances performance and reduce carbon footprint.

- **High quality graphene**
- Fully formulated dispersions with tunable morphologies & structures
- Value-adding performance benefits
- **Highly sustainable**



Introducing Genable™ Decarbonizer Graphene-Enhanced Liquid Admixture

We understand the challenges faced by cement and concrete chemists. Our unique admixture offers value adding performance and sustainability benefits.

Improved Mechanical Performance and Durability

Improved hydration leading to increased compressive strength by 25% - 35%

Decrease Cement Usage

Potential for a 15% reduction in mix design cement content without impacting durability

Enabling Increased SCM utilization

Allows for higher levels of supplementary cementitious materials by overcoming delayed early strength development issues

Reduce Carbon Footprint

Potential to reduce the global cement industries total greenhouse gas emissions



Genable[™] Decarbonizer Elevating Performance, Embracing Sustainability

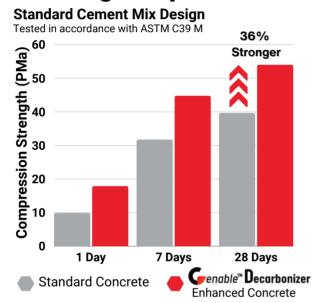
Cenable™ **D**ecarbonizer, a groundbreaking concrete admixture offers an unprecedented choice:

- significantly increase your concrete's compressive strength
- or maintain standard strength while reducing cement content.

By enabling a significant reduction in cement usage, we're helping decrease the carbon footprint of concrete production without compromising on performance.

Whether you're aiming for unparalleled strength or ecofriendly construction, **C**enable™ **D**ecarbonizer delivers the flexibility and performance you need to stay ahead

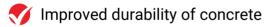
Outstanding Compression Strength Performance

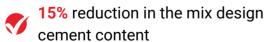


- Early and late strength development
- Increased cement durability
- Enables increased SCM utilization without performance compromises
- Offers the potential for significant reduction in cement content
- Decrease carbon footprints, building a more sustainable future

Enabling Innovative Concrete Possibilities

Commercial Project: Horizonal Silage Bunker - May 2024





Increased protection to lactic acid attack from corn silage fermentation







ADVANCED MATERIALS

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For more information:



Universal Matter Online

