



"Powering the Future with Graphene."

GRAPHACRETETM



50% Higher Strength



15-20% Reduction in Cement



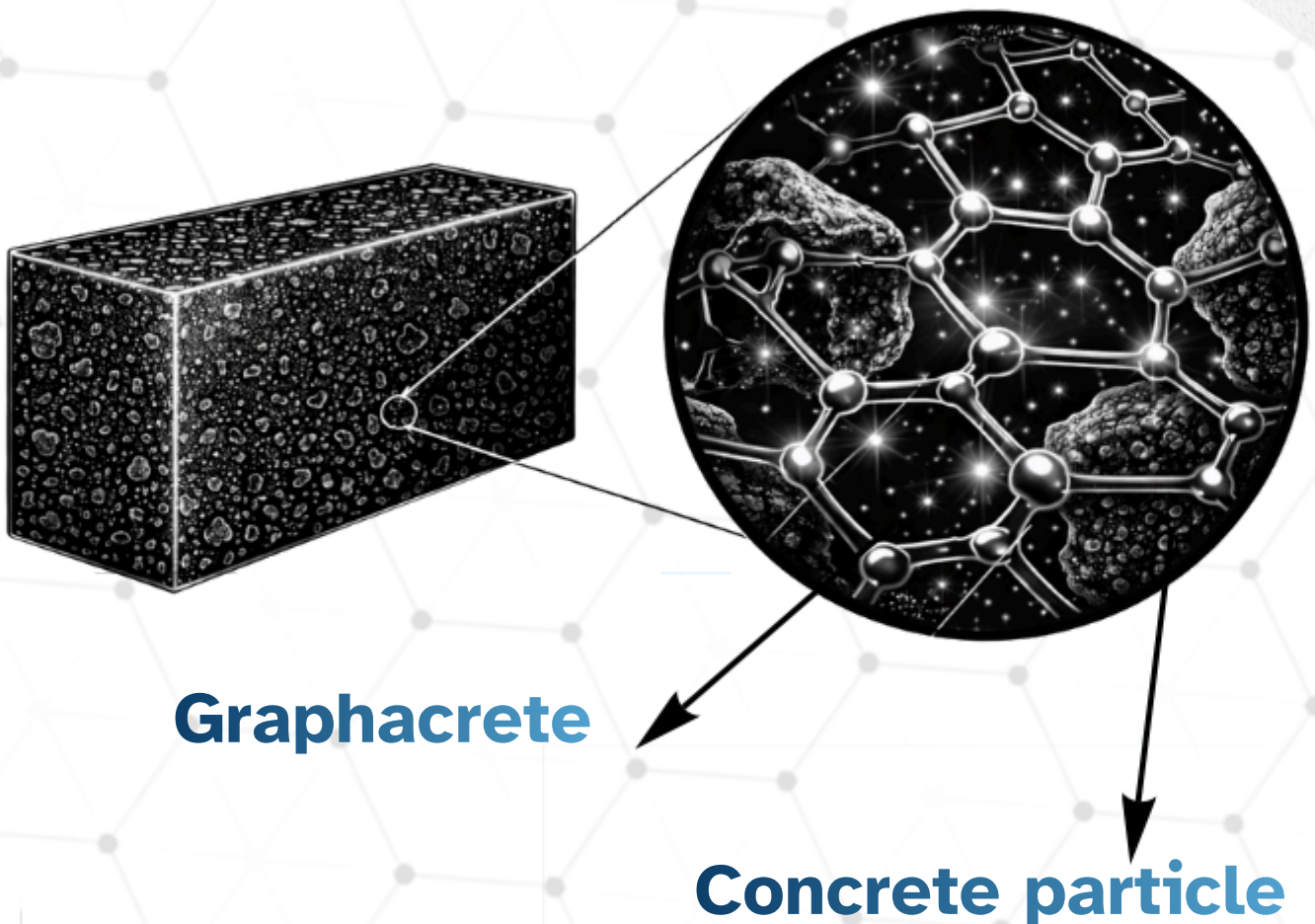
Advanced Crack Resistance



Enhanced Durability

What is Graphacrete?

Graphacrete is a next-generation graphene-enhanced concrete admixture that strengthens the internal structure of concrete, improving durability and performance while reducing cement consumption and environmental impact.



How does it work?

Graphacrete utilizes graphene nanoplatelets that are uniformly dispersed within the cement matrix to enhance the concrete microstructure at the nanoscale.

- **Up to 50% Higher Strength**

Graphene enhances C-S-H gel formation and optimizes stress transfer within the cement matrix, resulting in higher compressive strength.

- **15-20% Reduction in Cement**

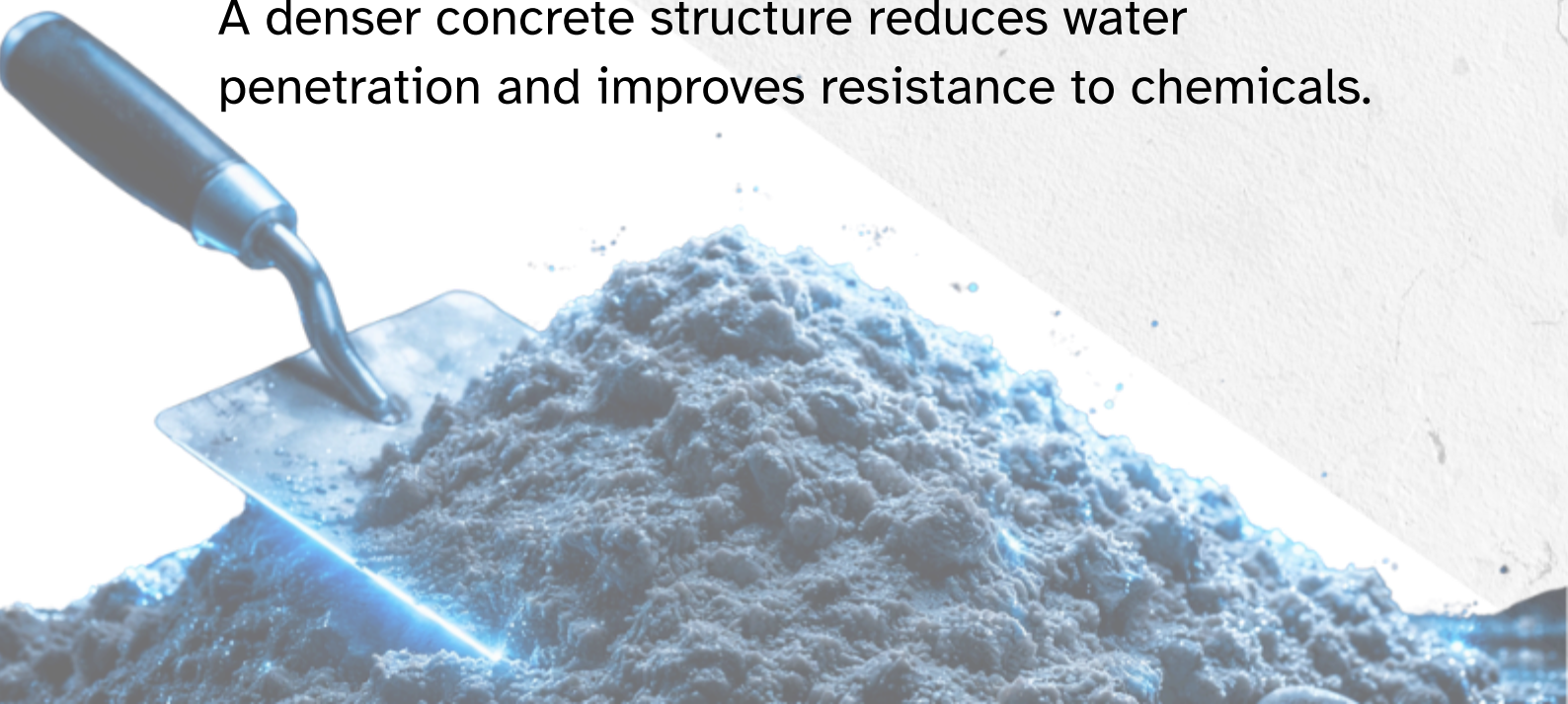
Improved particle packing and hydration efficiency enable achieving the same strength with reduced cement content.

- **Advanced Crack Resistance**

Graphene enhances the compactness of concrete, reduces thermal stress, and minimizes expansion and contraction caused by temperature changes.

- **Enhanced Durability**

A denser concrete structure reduces water penetration and improves resistance to chemicals.



Applications

- **Structural Systems**

High-Rise & Load-Bearing Structures

- **Infrastructure**

Bridges, Tunnels & Transportation Networks

- **Precast Solutions**

Precast & Modular Concrete Elements

- **Marine Structures**

Coastal & Offshore Applications

- **Industrial Surfaces**

High-Performance Flooring Systems

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