

# GreenFLEX™

By 20 Twenty Sustainable Manufacturing Inc

## Forget everything you know about concrete

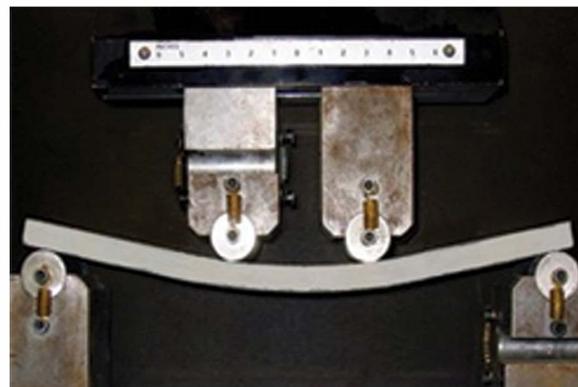
While ordinary cement is relatively cheap and plentiful, some of its components and chemical reactions lead to concerns with durability, like cracking, leaking as well as a high susceptibility to freeze/thaw cycles. The fact is that many by products of the production of typical cement contribute nothing to strength, but do harm long term durability.

In addition, typical concrete mixes are very brittle. They tend to snap suddenly like glass rather than bending to absorb overloading like plywood or fiberglass would. Sudden failure is the last thing you want in the event of a sudden impact like an earthquake or hurricane.

## GreenFLEX cement

GreenFLEX™ retains most beneficial strength contributing compounds of ordinary cement, but replaces other compounds and reactions with our proprietary enhancement of liquids, powders and multi synthetic fibrous additives to provide unprecedented long term strength and durability.

Compared with common concrete materials, GreenFLEX™ retains no trapped free water, has fewer internal voids, greater resistance to freeze/thaw cycles, substantially reduced shrinkage, permeability and susceptibility to cracking. In addition, GreenFLEX™ has a naturally lower PH value (alkalinity) than regular cement to provide longer lasting finishes and the virtual elimination of potential for alkali attack upon internal reinforcement. The result is a product that performs equally as well on day 1,000 as it does on day 1.



## Bending the rules

Improved durability was not the end of our quest however - because while concrete is an ideal building material in many ways, it has always been too brittle. A truly ideal structural material is not just incombustible and resistant to mold and rot, but also able to flex to absorb overloading from unexpected impact or natural disaster.

Utilizing a proprietary combination of synthetic fibers and our methods of controlling their individual reactions within the cement, we can give GreenFLEX™ both the stiffness and the flexibility needed to achieve ideal structural properties.

## Strength that lasts

The crown jewel of our engineering is a material that is approximately 300% stronger and 200 times more flexible than ordinary cement, yet has lasting resistance against the typical causes of concrete deterioration.

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