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## Attention: New Product Editor

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### PRODUCT NEWS RELEASE

#### **66% Reduction Of Concrete Shrinkage Cracking With Cortec MCI® Fibers.**

MCI® Fibers are the newest addition to the innovative MCI® product line manufactured by Cortec® Corporation. MCI® Fibers serve a dual purpose: they reduce concrete shrinkage cracking and provide corrosion protection to rebar, galvanized steel, and other metals embedded in concrete. MCI® Fibers are a cost-effective solution for extending the life of concrete structures.



MCI® Fibers (*patented*) were developed by Cortec® chemists after more than three years of extensive research & development. Recent tests performed by an independent testing facility in St. Paul, MN, show that MCI® fibers provide a 66% reduction of cracking compared to concrete without MCI® Fibers. In addition MCI® Fibers are environmentally safe, non-flammable, and non-toxic.

MCI® Fibers reduce concrete cracking by 66% and provide corrosion protection to embedded rebars. (Fiber dimensions: 0.015" D and 0.75" L)

MCI® Fibers are polypropylene based; they resist the high pH of concrete and because of their hydrophobic properties they survive freeze thaw cycles. MCI® Fibers contain Cortec's Migratory Corrosion Inhibitor technology which has the ability to diffuse into the concrete structure towards embedded metals. Cortec's Migratory Corrosion Inhibitors (MCI®) are attracted to embedded metal surfaces, forming a monomolecular layer protecting the metal from corrosive elements like water and chlorides.

	Concrete (Plain)	Concrete* With MCI® Fibers
Impact Strength (First Crack)	7 blows	12 blows
Ultimate Failure	10 blows	17 blows
Modulus of Elasticity	5.26 E + 06	5.71 E + 06
Residual Strength	54 psi	120 psi
Compressive Strength, 7 day	5120 psi	5390 psi
Compressive Strength, 28 day	7000 psi	7090 psi
Flexural Strength, 7 day	610 psi	940 psi
Flexural strength, 28 day	890 psi	1120 psi
Splitting Tensile Strength	363 psi	441 psi

Independent tests show that MCI® Fibers double the residual strength when added to a concrete mix.

MCI® Fibers are available in two forms: bulk MCI® Fibers, MCI® Fiber Grenades. One MCI® Fiber is 0.015 inch in diameter and 0.75 inch long. MCI® Fiber Grenades are a combination of MCI® Fibers and MCI® Powder packaged in a ready-to-use water-soluble PVA bag. The PVA bag dissolves completely during concrete mixing, making it safe and easy to work with. Each MCI Fiber Grenades treats 0.5 cubic yard of concrete. Both MCI® Fibers and MCI® Fiber Grenades are available in custom sizes.

**Photos:** High-resolution photos of Cortec® MCI® Fibers are available for download at:  
<http://www.blueleopard.net/cortecdownload/mci-fibers>  
<http://www.blueleopard.net/cortecdownload/mci-fibers-table>

**Company Description:** Cortec® Corporation is a pioneer of environmentally friendly, corrosion protection Vapor phase Corrosion Inhibitors (VpCI™) & Migratory Corrosion Inhibitors (MCI®) technologies for the Packaging, Metalworking, Construction, Electronics, Water Treatment, Oil & Gas and other industries. Headquartered in St. Paul, Minnesota, Cortec® manufactures over 400 products distributed worldwide. ISO 9001 & ISO 14001:2004 Certified.

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