HiperLon™

Innovative Concrete Fiber

FEATURES	• Enhances performance & durability • Provides secondary reinforcement • True replacement for rebar • Alkali resistant & non-corrosive • Insoluble in water • Mixes well in concrete • High impact resistance • Excellent finishability	
BENEFITS	HiperLon™ fiber added to concrete mechanically locks in the fresh concrete matrix and adds flexural strength. HiperLon™ provides secondary reinforcement and rebar replacement without the worry of corrosion. With HiperLon™, concrete is quicker to place, cuts labor costs, is highly impact resistant and improves your Bottom Line.	
APPLICATIONS	HiperLon™ characteristics lend itself to a variety of concrete applications including: slab-on-grade, precast concrete, shot-crete, paving, corrosive area placements and specialty concrete applications.	
DOSAGE RATES	For general applications such as slab-on-grade, a standard dosage of 5 lbs. /yd^3 is recommended. Other fibers require higher dosage rates or cannot meet requirements to achieve similar performance. For other applications, consult with your ICF representative for recommended dosages.	
MIXING	Follow ASTM C-94 guidelines. HiperLon™ can be added directly to the mix at the jobsite or during batching of ingredients, but not as the first ingredient and should be mixed for a minimum of 5 minutes at full mixing speed.	
PACKAGING	1 Carton/30 lbs. per box; 18 Cartons/Pallet; 11 Pallets/20 ft. Container. Bulk gaylords are available on request.	
FINISHING	There is little surface protrusion when using HiperLon™. HiperLon™ can be pumped or placed using conventional equipment and HiperLon™ can be used with most finishing techniques including power or hand troweling and broom finished concrete.	
PHYSICAL PROPERTIES	Material	Modified Nylon
	Specific Gravity (g/m^3)	1.15
	Impact Resistance	High
	Blast Resistance	High
	Tensile Strength	116 ksi.
	Acid & Alkali Resistance	Excellent
	Color	Off White
	Dispersity Rate	Excellent
	Filament Diameter (mm)	1.0
	Fiber Count (fiber/lb.)	7500
	Fiber Length inch (mm)	3 inch (76mm) (see availability of other lengths)

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TESTING

Introduction: This document presents the summary of the laboratory testing performed by TEC on samples of concrete containing HiperLon™ fiber at different application rates. The scope of the testing was as follows:

Perform laboratory batching of concrete with and without fibers according to ASTM C 1609

A. Flexural Strength (ASTM C 78-10)

B. ASTM C 1609

C. Resiliency

D. ASTM C 1018

Summary of Test Results:

The following is a summary of the tests results:

Dosage per yard/3	Resiliency	ARS/PSI	C1018 I10
3	17.37%	227 psi	4.8
5	28.33%	364 psi	4.8
10	41.39%	512 psi	5.8
15	46.67%	630 psi	7.0
25	54.01%	725 psi	9.0

Conclusion:

Based on the test results, HiperLon™ fiber can be used at a specified dosage rates to replace welded wire mats and rebar in specified concrete placements.

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