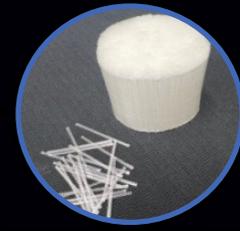


Durastran®

Synthetic Macro-Fiber Reinforcement



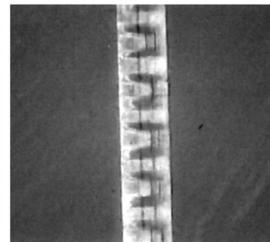
Durastran® Synthetic Macro-Fiber is a semi-rigid, embossed “stick-type” fiber engineered to minimize shrinkage in both plastic and hardened concrete. The Durastran® Fibers work to increase the concrete’s toughness and its ability to absorb more energy and control post-crack forces. As a field-proven replacement for conventional steel when used as secondary reinforcement, the Durastran® Fibers bond with the matrix to help dissipate the energy and carry the load beyond the concrete’s original design strength and capability.

Enhanced Performance

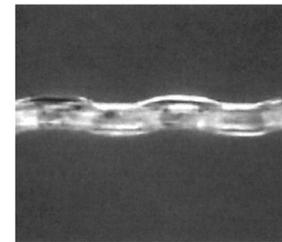
As Built-In Reinforcement, Durastran® is Positioned Three Dimensionally - providing isotropic performance and added toughness throughout the entire concrete structure. This flexural toughness and residual strength can be increased with higher Fiber volume fractions.

Key Benefits of Use

- For Increased Durability and Flexural Toughness in both Precast Structures and SOG applications
- Special packaging provides excellent dispersion in the mix - eliminating balling and clumping when mixed according to ASTM C94
- Unique geometry delivers superior crack control
- Safe and Easy to use - non-corrosive
- Eliminates the higher costs and hassles associated with using conventional steel, or steel fiber reinforcement
- Reduces labor and time on EVERY job and project.



Top View (24X)



Side View (24X)

The unique design and bonding elements of the Durastran® Fibers can be easily seen under magnification. This engineered shape creates the micro-mechanics that resist the post-crack pullout forces; and dissipates more energy, causing ductile behavior. **The result is more durability & longer life.**

Product Characteristics

Specific Gravity	0.91
Fiber Configuration	Rigid; Crimped
Fiber Length	38 & 51 mm (1.5 & 2.0")
Color	Natural - White
Absorption	Nil
Alkali Resistance	Excellent
Chemical Resistance	Excellent
Melting Point	160° C (320° F)
Ignition Point	590° C (1094° F)

Typical Applications

Precast Structures

- Cemetery Products; Burial Vaults
- Sanitary & Stormwater Products; Septic Tanks
- Building and Site Amenities; Wall Systems
- Agriculture Products; Bunks, Guards, Slats
- Blast & Hazardous Materials Containment

Slabs on Grade

- Elevated Slabs and Composite Metal Decks
- Industrial, Commercial and Residential
- Engineered Cementitious Composites (ECC)
- Pavements: Overlays and White-toppings

Engineering Specifications

Durastran® Synthetic Macro-Fiber is a safe easy to finish, QA/QC alternative for traditional reinforcement practices.

Do specify Durastran® for enhanced concrete properties; with improved ductility & flexural performance.

Do specify Durastran® for economic benefits: Reduced project costs in materials and labor.

Do specify Durastran® as a sustainable, non-corrosive reinforcement alternative for steel fibers or conventional steel reinforcement.



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FiberWorx hopes the information given herein is helpful. All information is based on test data and knowledge considered to be true and accurate, and is offered for the user's consideration, investigation and verification.



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