

# FORTRESS STABILIZATION SYSTEMS INTRODUCES THE **CARBON FIBER GRIDS** FOR DECORATIVE CONCRETE APPLICATIONS & EPOXY OVERLAYS

PATENT PENDING

Fortress Stabilization Systems is on the cutting edge of developing stronger, lighter, more cost-effective alternative to the old ways of laying concrete. Fortress Carbon Fiber Grid products can increase structural strength and stability of concrete while extending the life of your project and reducing labor cost. The Carbon Fiber technology allows the grids to be handled with ease due to its light weight. Fortress Carbon Fiber Grid products lay flat, have better crack control and improve the longevity of concrete.

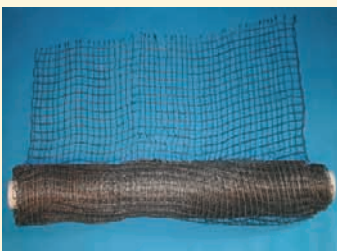
## CARBON GRID MESH



Fortress Stabilization Systems Pre-Preg Carbon Grid Mesh is a revolutionary alternative to welded wire. The mesh strength is based on the Ultimate Tensile Strength. Steel will yield a lower strength and will break at this strength. The carbon is stiffer than steel, so the concrete will crack less in reaching the full tensile capacity of the mesh. The surface area of the mesh is also greater, so the concrete/carbon bond is more effective than that of steel.

The Pre-Preg Grid comes in a variety of structural mats or scrims having the advantage of being lightweight and non-corrosive. Pre-Preg Grid Mesh is used in various pre-cast applications, both vertical and horizontal applications of shotcrete, decorative concrete from slabs to countertops as well as concrete crack control.

## CARBON FIBER NET



Fortress Stabilization Systems Carbon Fiber Net is the pre-cursor to Grid Mesh. The mesh strength is based on the Ultimate Tensile Strength. It is a wet lay up process that cures in place in epoxy overlays and becomes part of the overlay itself.

It is low profile and conforms to substrate surface. Ideal for any epoxy overly indoor or out: From small garages to industrial factories and from driveways to bridge decks.



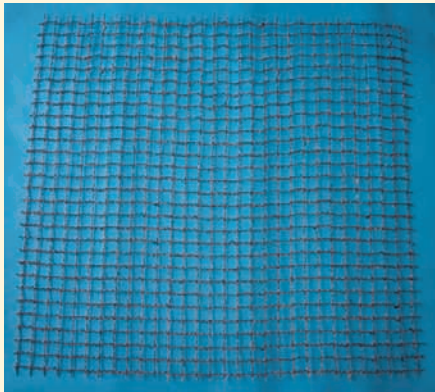
**FORTRESS**  
STABILIZATION SYSTEMS

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# FORTRESS STABILIZATION SYSTEMS INTRODUCES THE CARBON GRID MESH

## FOR CONCRETE APPLICATIONS IN COMMERCIAL SETTINGS

The Fortress Stabilization Systems Pre-Preg Carbon Fiber Grid Mesh is a cross-laid carbon fiber composite grid with an epoxy coating. Industrial-grade carbon fiber has made it economically possible for use in commercial settings. The Carbon Grid Mesh adds greater benefits to any concrete project. It increases the quality, strength, adds longevity and



long-term performance to the concrete. The Carbon Fiber Grid Mesh is more corrosion-resistant than steel and it doesn't diminish over time. It also won't rust, stain or spall, like steel mesh.

The Fortress Stabilization Systems Pre-Preg Carbon Fiber Grid Mesh structurally allows the concrete to be thinner and taller.

Carbon Fiber grids require less concrete cover than steel mesh. Typically 2 to 3



inches are required to minimize steel reinforcement corrosion. While the Fortress Stabilization Systems Pre-Preg Carbon Grid Mesh requires 5/8" of concrete cover,

making it lighter weight, easier and more affordable to include expensive color additives and aggregates. With the concrete cover being thinner any supporting and connecting elements can be designed for lighter loads, reducing structural and shipping costs. Also reducing any maintenance costs.

Also, The Fortress Stabilization Systems Pre-Preg Carbon Fiber Grid Mesh controls shrinkage cracks more effectively than steel mesh because it bonds better to concrete. It does this because it is placed closer to the surface and has a smaller spaced mesh pattern than steel mesh.



Fortress Stabilization Systems Pre-Preg Carbon Grid Mesh can be used in a variety of ways to address many design requirements and needs. The grids are suitable for use in seawalls, sewers, manholes, staircases and statues. Lobbies, public areas, restrooms, and many more. The Carbon Fiber Grid Mesh reduces the structure load and its installation is fast and easy.



The Fortress Stabilization Systems Pre-Preg Carbon Fiber Grid Mesh is an innovative product that will improve the way you use concrete. This revolutionary state-of-the-art technology has many design, cost and long-term benefits that will increase your bottom line.

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