

COUNTERSUNK STAPLE CONCRETE CRACK CONTROL STITCHING SYSTEM



Product Description. Fortec Stabilization Systems Countersunk Staples are the first commercially available concrete crack control stitching system designed to transfer load away from repair materials. The Staples are comprised of high tensile strength and modulus carbon fiber. The fibers are encapsulated in a thermal set resin and cured under pressure during manufacturing process. A peel-ply fabric is adhered to the strap; when removed, it leaves a prepared bonding surface for adhesion to a prepared substrate. The typical staple is 12" long by 10mm wide with 1/2" legs.



Advantages

- ⌘ Low profile and can be installed behind brick facade or other building facades.
- ⌘ Legs or overlaps can be added to extend loads
- ⌘ Parge coats and painting can be used for aesthetics
- ⌘ Installs in same fashion as straight carbon plate or grids
- ⌘ Reduces or illuminates contractor error in bending FRP to far to carry load
- ⌘ Peel-ply technology on both sides for increased bonding capabilities.

PRODUCT USE

Concrete wall crack injection repair became less expensive with the introduction of dual cartridge tube sets, dual dispensing guns, etc. However; it also became too easy. Everyone with a pulse began shooting concrete cracks with some kind of sealant. Poured wall companies would pull a guy off a crew when they were slow and send them out for warranty repairs. Find a contractor today that does not offer a warranty, but are they still in business 2 or 3 years later when the repair fails.

Very few concrete crack repairs fail immediately. It is the long-term creep and fatigue of material injected in concrete cracks with the movement of the foundation that can fail over time. By cross-stitching concrete crack repair with staples this creep is eliminated and improves the long term performance of the repair material.

When Fortec Carbon Fiber Countersunk Staples are applied across the face of the concrete crack, the load is distributed away from the glue line to the portion of the substrate that is not cracked. This prevents fatigue and re-cracking of the injection glue line.

With the Fortec Carbon Fiber Countersunk Staples installed you can be confident the concrete crack will not reoccur at the injection site and the repair will last the life of your home.

SPECIFICATIONS

GENERAL INFORMATION

CONSTITUENT MATERIALS Continuous carbon fiber tows and epoxy
PRIMARY FIBER DIRECTIONS 0° (unidirectional)
COLOR Black

SPLITTING PROTECTION A thin 90° carbon fiber ply is included to prevent splitting of the laminate

SURFACE TEXTURE Peel-ply surface for maximum adhesion

TYPICAL MATERIAL PROPERTIES

NOMINAL THICKNESS	0.06 in	1.7 mm	
Carbon Staple 1800gsm			
TENSILE STRENGTH	8,000 lbs per unit		
TENSILE WIDTH	.38 in	9.65 mm	
TENSILE MODULUS	19,000 ksi	131 GPa	ASTM D3039
FAILURE STRAIN	1.4%	1.4%	ASTM D3039

RECOMMENDED TOOLS FOR INSTALLATION:

Bosch 1775E Dustless Shroud Crack Chaser ([Bosch Tools](#))
5" X .500 tuck pointing wheel - can be purchase from:
Tecnomel International Corp
Newport Beach, CA
888-722-6945

Keep Out Of Reach of Children - Keep Container Tightly Closed - Not For Internal Consumption – For Industrial Use Only

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