

TECHNICAL DATA SHEET

Rhino Carbon Fiber Concrete Crack Lock Stitches | Revision Date 9/16/2022

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01: PRODUCT IDENTIFICATION

RHINO PRODUCTS USA
8383 Riley Street,
Zeeland, MI 49464 USA

Product Name: Rhino Carbon Fiber Concrete Crack Lock stitch

02: DESCRIPTION

The Rhino Carbon Fiber Concrete Crack Lock stitch (CCL) is a revolutionary new product that was developed to improve concrete crack repair. CCL is installed by making a single cut across the crack and drilling two holes along the cut at the appropriate locations. Once the preparation is complete and free of dust, the cut is filled with RCF High Strength Anchoring Epoxy Paste, the CCL is inserted, and more Anchoring Epoxy covers the stitch. Once installed, the CCL bonds both sides of the crack together. Due to the unique shape of the CCL, it utilizes the complete tensile strength of the carbon fiber instead of just the epoxy bond.

03: WHERE TO USE:

The Rhino Carbon Fiber Concrete Crack Lock stitch has been engineered to stop cracks in concrete slabs, poured walls, masonry, concrete block foundations, columns, industrial buildings, bridges and foundations. The Rhino Carbon Fiber Concrete Crack Lock stitch is designed for cracks of various sizes under virtually any circumstance. CCL can also be used to increase seismic strength after an earthquake.

04: ADVANTAGES

- High Strength
- Non-Corrosive
- Alkali Resistant
- Minimal Aesthetic Impct
- Minimally Intrusive
- Shape Maximizes Strength

05: DATA

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Storage Conditions	Store dry at 40° - 95°F (4° - 35°C)
Shelf Life	Unlimited, if stored properly in original, unopened, undamaged packaging
Color	Black
Primary Fiber Direction	0° (Unidirectional) - Carbon

TECHNICAL INFORMATION		
Property	Imperial	Metric
Guaranteed Tensile Strength (ASTM D3039)	167 ksi	1150 MPa
Web Thickness (ASTM D3039)	0.055 in	1.40 mm
Web Width (ASTM D3039)	0.420 in	10.67 mm



1-888-684-3889 | www.RhinoCarbonFiber.com

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06: LAYOUT: SURFACE PREP

Refer to Rhino Carbon Fiber Application Instructions.

07: APPLICATION

Refer to Rhino Carbon Fiber Application Instructions.

08: TOOLING & FINISHING

Any tool that will accept a diamond saw blade suitable for cutting concrete will work to make the cuts across the crack. A tuck point grinder or slotting tool with dust shroud works best to minimize dust while allowing you to set the depth of the cut. Use any hammer drill with a 1/2" (13 mm) diameter masonry drill bit to drill the holes. Larger bits can be used but will require additional epoxy to fill the larger holes.

09: LIMITATIONS

Design calculations must be made and certified by an independent licensed professional engineer.



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