

# CARBON WELD 35/150

**DESCRIPTION**

35 Stitch-Bonded Uni-Directional Carbon Fabric is produced from Continuous Tow Carbon Fiber. Unique fiber spreading techniques are utilized to obtain the correct UD fabric weight.

**Manufacturer**

CPR Products, Inc.  
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**Benefits**

- Economical
- Low profile repair
- Adds structural integrity
- Can be used in conjunction with crack injection

**How to use**

**Surface Preparation:** Surface must be clean and sound 13-14 inches wide centered with crack. May require grinding to obtain exposure to solid concrete. Remove all dirt, grease, wax, curing compounds and other foreign matter. Remove water and dust from all surfaces prior to application.

PROPERTIES OF CARBON WELD 35/150		
<b>PRODUCT COMPONENTS</b> (all weights in grams per square meter)		
UD 150	158	
Glass 34 tex	10	
Polyester Veil	-	
Polyester Stitch 76 dtex	6	
Binder resin Powder	8	
<b>FABRIC CONSTRUCTION</b>		
Stitch Length	3.6mm	
Stitch Pattern	Tricot	
Dry Thickness	0.4mm	
Sheet Size	12"x24"	
<b>FIBER PROPERTIES</b>		
Tensile Strength	213 kpsi	(213,000 psi)
Tensile Modulus	16.7 Mpsi	(16.7 million psi)
Compressive Strength	113 ksi	(113,000 psi)
Compressive Modulus	15.8 msi	(15.8 million psi)
Density	0.065lb/in	
Fiber Diameter	0.283 mils	
Carbon Content	95 %	
<b>(Based on Fiber Volume Fraction (FVF) of 55%)</b>		

**Installation:**

Center each piece of the carbon fiber over the crack from side to side. Be certain to get complete surface contact with #500 Bonding Epoxy already applied to the repair area. Fabric toes must be at a 90

degree angle to crack. Roll out all air pockets using a thin nap roller from the middle of each fabric piece to the outside. Overlap the end of each fabric piece is permissible. Apply a second coat of #500 over the entire fabric area. Allow to cure.

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**Packaging**

Carbon Weld Kit consist of:  
Four 12" x 24" Carbon Fiber  
Sheets

**Limitations/Precautions**

- Temperature of substrate must be above 40°F.
- New Concrete must be at least 28 days old.

**Storage**

The Carbon Weld Kit should be stored in a dry environment between 60-80 deg. F.

**Technical Service**

Complete technical service and specification services are available from the manufacturer and their authorized representatives.

**Warranty**

All recommendations, statements and technical data contained herein are based on tests we believe to be reliable and correct. CPR Products, Inc. warrants its products to be free of manufacturing defects and that at the time and/or place of shipment our material will meet current published physical properties when applied with ASTM and CPR Products, Inc. standards. CPR Products, Inc. liability is limited to the replacement of the material if found to be defective. As CPR Products, Inc. has no control of the use to which others may put its products, it is recommended the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect, engineer, contractor and the owner for the design, application and proper installation of each product. Nothing contained herein shall be construed to be a recommendation to use or as a license to operate under or to infringe any existing patents.

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