



RHINO CARBON FIBER™ CONCRETE CRACK LOCK®

HIGH STRENGTH CARBON FIBER CRACK BRIDGING STITCHES FOR REINFORCING CRACKS IN CONCRETE

RHINO CARBON FIBER™ CONCRETE CRACK LOCK® (CCL) is a revolutionary crack bridging system developed to improve concrete crack repair. The CCL is installed by making a single blade-width cut across the crack and drilling two holes along the cut at the appropriate locations. Once the preparation is complete and free of dust, it is filled with **DUNLOP BUILDER'S BOND Epoxy** and the CCL is inserted and covered with **DUNLOP BUILDER'S BOND**. Once installed, the CCL permanently bonds both sides of the crack together. Due to the unique shape of the CCL and the preparation in the concrete, the tensile strength of the carbon fiber is relied upon as well as the epoxy bond strength along its length. **Concrete Crack Lock Strength: 1200MPa.** Use with **DUNLOP BUILDER'S BOND Epoxy**. Resists further cracking, locks both sides of the crack.



- **HIGH STRENGTH**
- **NON-CORROSIVE**
- **ALKALI RESISTANT**
- **MINIMAL AESTHETIC IMPACT**
- **PERMANENTLY STRENGTHENS CRACKS**
- **FAST INSTALLATION**

USE ON: VERTICAL OR HORIZONTAL CONCRETE, CRACKS IN SLABS, POURED WALLS, MASONRY, CONCRETE BLOCK, FOUNDATIONS, COLUMNS, INDUSTRIAL BUILDINGS AND SWIMMING POOLS

TYPICAL APPLICATIONS

The CCL has been engineered to stop cracks spreading in concrete slabs, poured walls, masonry, concrete block foundations, columns, industrial buildings and foundations. The CCL system is designed for cracks of various sizes under virtually any circumstance. It can also be used to increase seismic strength to repair after an earthquake.

roughly 90 degrees to the crack (as simple template can be used)

- Vary the angle at each location slightly to reinforce the crack from moving in all directions.

Tools: Marker and measuring tape.

01 PREPARATION

- Lay plastic or drop cloth around surface (if needed)
- Grind across surface of crack to ensure it is smooth.
- The concrete surface must be clean and free of loose debris.

Tools: Grinder, drop cloth, tape and PPE.



03 CUTTING

- Using a tuck point grinder with a 2mm thick blade, make the cut across the crack for the CCL.
- The cut should be around 16mm deep to provide approximately 3mm cover over the CCL.
- Make sure the cut is full depth from hole location to hole location.

Tool: Tuck point grinder.

02 LOCATIONS

- Install the first CCL as close to the beginning of the crack as possible.
- CCLs should be installed every 200 – 300mm roughly perpendicular to the crack.
- Centre the CCL to the crack and trace the outline of the CCL at each location and place them at



04 DRILL

- Line the CCL ends up with the cut.
- Mark and drill the holes the same depth as the cut.
- Drill 13-16mm holes at each end of the cut where the lock will be inserted.

Tip: Recheck the spacing prior to drilling the second end.

Tools: Drill and 13-16mm masonry drill bit.



05 CLEAN

- Use an industrial vac or other appropriate method to remove all loose debris and clean out the area.
- Also ensure that each CCL fits properly into each prepared area before applying DUNLOP BUILDER'S BOND.

Tool: Vacuum.

06 INSTALL

- Fill the cut and holes with DUNLOP BUILDER'S BOND.
- Insert CCL into the cut and work it in to ensure all voids around the CCL are filled.
- Apply additional DUNLOP BUILDER'S BOND epoxy until it is even with your concrete surface and scrape away excess epoxy and apply to the crack of the next CCL location.

Tool: Putty knife.



1
Fill cut with DUNLOP BUILDER'S BOND



2
Press the CCL into the epoxy



3
Apply additional epoxy over the CCL



4
Scrape away excess epoxy and smooth surface

07 FINISHING

- Fill the crack with DUNLOP BUILDER'S BOND to be level with installed CCLs.
- If the product settles add more epoxy to the cuts.
- Once DUNLOP BUILDER'S BOND has cured, excess can be ground off using a grinder.
- Optional: paint or seal over the repair.



STORAGE

Store dry at 4°– 35°C.

SHELF LIFE

10 years.

The technical details, recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable Australian Standard, our instructions and recommendations and only for the uses they are intended. Users are advised to confirm that this product is suitable for their application and conforms with the specifications of the system being employed and other products in that system. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program.

Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may effect specific installation recommendations. The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are other-wise available to you on request. You should make yourself familiar with them.

This datasheet was issued in Nov 2018 and is valid for 3 years, unless updated sooner. Always refer to www.dunloptrade.com.au for the latest technical data from ARDEX Australia Pty. Ltd.

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