

BCS03

Repair of a crack near a corner in a cavity wall using HeliBars

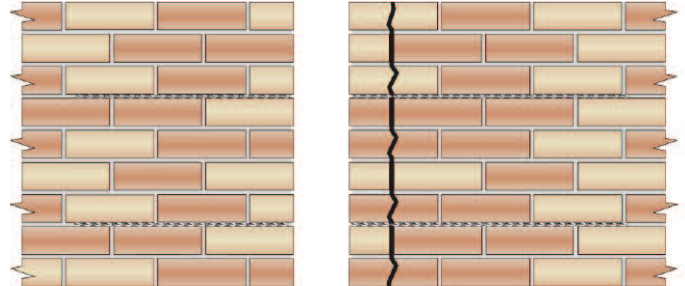
Product	Description	Code
HeliBar	Grade 316 stainless steel reinforcement	HBR
HeliBond	Injectable cementitious grout	HLB
HeliPrimer	Water-based primer for porous substrates	HWB
CrackBond	Epoxy resin for filling cracks	HCB

METHOD STATEMENT

- Using an appropriate power cutting tool with vacuum attachment, cut slots into the horizontal mortar joints, to the specified depth and at the required vertical spacing.* Ensure that as much mortar is removed as possible from the exposed brick surfaces in order to provide a good masonry/grout bond. If the wall is rendered and the mortar joints are not visible, cut the horizontal slots through the render and into the masonry.
- Clean out all dust and loose mortar from the slots and thoroughly flush with water. Where the substrate is very porous or flushing with water is inappropriate, use HeliPrimer WB. Ensure the slot is damp or primed prior to commencing step 6.
- Cut the HeliBar to the required length and bend to fit slots.
- Mix HeliBond cementitious grout thoroughly using a drill and mixing paddle and load into the Helifix Pointing Gun.
- Fit the mortar nozzle to the gun.
- Inject a bead of HeliBond grout, 10-15mm deep, into the back of the slot.
- Push the HeliBar into the grout to obtain good coverage.
- Inject a second bead of HeliBond grout over the exposed HeliBar and iron it into the slot using a finger trowel. Inject additional HeliBond as necessary, leaving 10-15mm for new pointing.
- Point up the remaining slot with a suitable matching mortar and make good the crack using an appropriate Helifix bonding agent or filler, e.g. CrackBond, depending on the width of the crack.
- Clean tools with clean, fresh water.

NOTE. Pointing may be carried out as soon as is convenient after the HeliBond has started to gel. Ensure that pointing does not disturb the masonry/HeliBond connection.

CAUTION. Always locate, identify and isolate any electrical, water or gas services which may be present in the wall or the wall cavities and can pose a safety risk before drilling or cutting. Always take the necessary safety precautions. Use electrical safety gloves and wear appropriate footwear and eyewear.



RECOMMENDED TOOLING

- For cutting slots**.....Chisel, mortar saw (e.g. Arbortech All Saw) or angle grinder with dust guard (e.g. C-Tec) and vacuum
- For mixing HeliBond**.....Drill with mixing paddle
- For injection of HeliBond into slots**.....Helifix Pointing Gun with mortar nozzle
- For smoothing pointing**.....Standard finger trowel

* Specification Notes

The following criteria are to be used unless specified otherwise:

- A. Depth of slot to be 25mm to 35mm + thickness of any render.
- B. Height of slot to equal mortar joint height, with a minimum of 8mm.
- C. HeliBar to be long enough to extend a minimum of 500mm either side of the crack or 500mm beyond the outer cracks if two or more adjacent cracks are being stitched using one rod.
- D. Normal vertical spacing is 340mm (4 brick courses).
- E. Where a crack is less than 500mm from the end of a wall or an opening the HeliBar is to be continued for at least 100mm around the corner and bonded into the adjoining wall or bent back and fixed into the reveal, avoiding any DPC.
- F. Install Helifix remedial wall ties if existing ties are defective in any way. Refer to Helifix Repair Details BRT01-03 for further information.
- G. In hot conditions ensure the masonry is well wetted or primed to prevent premature drying of the HeliBond due to rapid de-watering. Ideally additional wetting of the slot, or priming with HeliPrimer WB, should be carried out just prior to injecting the HeliBond grout.

The above specification notes are for general guidance only and Helifix reserves the right to amend details/notes as necessary.

GENERAL NOTES

- Helifix product details available at www.helifix.com.au.
- If your application differs from this repair detail or you require specific technical information, call Helifix on 1300 66 70 71.

ELEVATION

REFLECTIVE PLAN

EXAMPLE SPECIFICATION

CRACK STITCHING A CRACK NEAR A CORNER IN CAVITY WALL

Material: HELIBAR 6 X 1000 Product code: HBR6x1000
Material: HELIBOND Product code: HLB

CRACK TO BE STITCHED BY BONDING 1M LENGTHS OF 6MM DIA. HELIBAR (HBR6) INTO CUT SLOTS USING HELIBOND GROUT (HLB). HELIBARS TO EXTEND 500MM PAST EITHER SIDE OF THE CRACK AND TO BE INSTALLED AT A VERTICAL SPACING OF NOT MORE THAN FOUR BRICK COURSES APART. SLOTS TO BE CUT INTO THE HORIZONTAL MORTAR JOINTS TO A DEPTH OF 25-35MM AND TO A HEIGHT EQUAL TO THE MORTAR JOINT HEIGHT. CUT SLOTS AND BEND HELIBARS TO EXTEND STITCH AROUND CORNER AS NECESSARY TO ACHIEVE FULL 1M STITCH LENGTH.

1	HBR	HELIBAR	
ITEM	CODE	DESCRIPTION	
HELIFIX (AUSTRALIA) PTY LTD			
TYPICAL WALL TYPE AND HELIBAR APPLICATION			
SCALE 1:20		DWG No. BCS03-EXS	SHEET 1 of 1