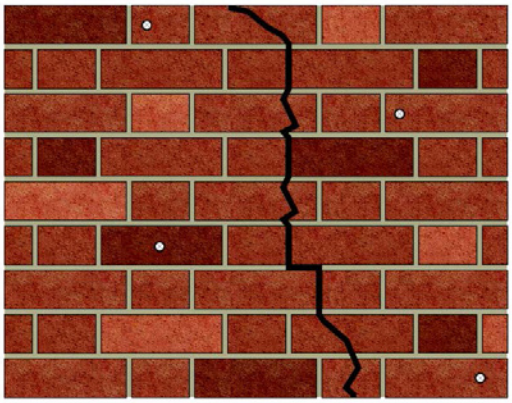
Cross Stitching a Cracked Solid Wall using CemTies

METHOD STATEMENT

1. Mark positions for holes on the outer face of the wall.
2. Drill a 14mm clearance hole (16mm if the CemTie is longer than 450mm) at the required location and angle and to the specified depth.
3. Clean out ALL dust from the hole and thoroughly flush with water. Where the substrate is very porous or flushing with water is inappropriate, use HeliPrimer WB. Ensure the hole is damp or primed prior to commencing step 8.
4. Attach the required length of CemTie pinning nozzle to the gun.
5. Mix HeliBond cementitious grout using a power mixer and load into the Helifix Pointing Gun HD.
6. Pump grout to fill the nozzle.
7. Wind the CemTie into the nozzle and ensure that it is fully covered in grout.
8. Insert the nozzle to the full depth of the drilled hole and pump the grout.
9. Make good all holes at the surface with matching mortar and make good the crack using an appropriate Helifix bonding agent depending on the width of the crack or leave ready for any decoration.
10. Clean tools with clean, fresh water.

N.B. Pointing may be carried out as soon as is convenient after the HeliBond has started to gel.





RECOMMENDED TOOLING

- **For drilling**
  SDS Rotary hammer drill 650/700W
- **For mixing HeliBond**
  3-jaw-chuck drill with mixing paddle
- **For insertion of the CemTies**
  Helifix Pointing Gun HD with pinning nozzle

Specification Notes

The following criteria are to be used unless specified otherwise:

A. CemTies are to be installed perpendicular to the direction of the plane of the crack (e.g. in the horizontal plane for vertical cracks and in the vertical plane for horizontal cracks).

B. CemTies are to start a minimum of 225mm away from the crack.

C. Depth of hole to be CemTie length +25mm.

D. Angle of drilling to be such that the CemTies will pass through the crack within the centre third of the wall.

E. CemTies are to start from alternate sides of the crack and to be at 225mm spacing measured along the length of the crack.

F. 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 hole, or priming with HeliPrimer WB, should be carried out just prior to inserting the CemTie.

G. Do not use HeliBond when the air temperature is +4°C and falling or apply over ice. In all instances the hole must be thoroughly damp or primed prior to injection of 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

If your application differs from this repair detail or you require specific advice on your particular project or Helifix products, call our Technical Sales Team on **020 8735 5222**.

Our Technical Department can provide you with a full support service including:

- Advice, assistance and recommendations on all structural repair matters
- Devising and preparing complete repair proposals for specific situations
- An insurance-backed warranty via our Approved Installers scheme

Tel: 020 8735 5200 / Email: info.helifix.uk@leviat.com
The Mille / 1000 Great West Road / Brentford / London / TW8 9DW
Helifix.co.uk / Leviat.com