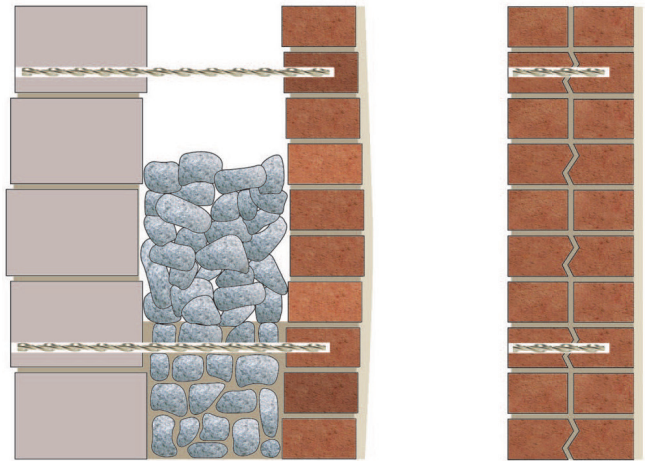
Repair of Delaminated or Separating Masonry in a Rubble-Filled or Solid Wall using CemTies

METHOD STATEMENT

1. Mark the positions for the 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 locations and to the specified depth.
3. Clean out ALL dust from the holes and thoroughly flush with water. Where the substrate is very porous or flushing with water is inappropriate, use HeliPrimer WB. Ensure the holes are damp or primed prior to commencing step 7.
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 motar or leave ready for any decoration.
10. Clean tools with clean, fresh water.

N.B. If diamond core drilling is used, the internal surface of the hole must be roughened to ensure a good bond.



RECOMMENDED TOOLING

- **For drilling**
  SDS rotary hammer drill 650/700W or diamond core drill
- **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 typically to be installed at a density of 5 ties/m2 (i.e. 450mm horizontal and 450mm vertical spacing with alternate rows staggered).

B. The density is increased around openings with ties placed at 300mm vertical spacing and 225mm back from the opening.

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C. Depth of hole to be CemTie length +25mm. CemTies should be embedded to a minimum depth of 75mm into the far leaf.

D. 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 should be carried out just prior to inserting the CemTie.

E. 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 with HeliPrimer WB 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