

REPAIR OF A CRACK NEAR A CORNER IN A STONE WALL USING STRUCSOL ULTRABAR (1 OF 2)

Recommended Tooling

- ∅ For cutting slots 40mm deep or over: Twin-bladed cutter with a vacuum attachment.
- ∅ For mixing StrucSol HSGrout: 3-jaw chuck drill with mixing paddle.
- ∅ For injection of StrucSol into slots: Pointing Gun CS with Mortar Nozzle.
- ∅ For smoothing pointing: Standard Finger Trowel.
- ∅ For Injection of the StrucSol Crack Filler: A 400ml Mastic Gun is required.
- ∅ PPE Clothing and Protection.

General Notes

If you require specific advice on your project, please call the StrucSol technical help line 0116 2375082. We can supply a full support service which includes:

- ∅ Advice and assistance on all structural matters.
- ∅ Preparing repair proposals for specific projects.

Method Statement:

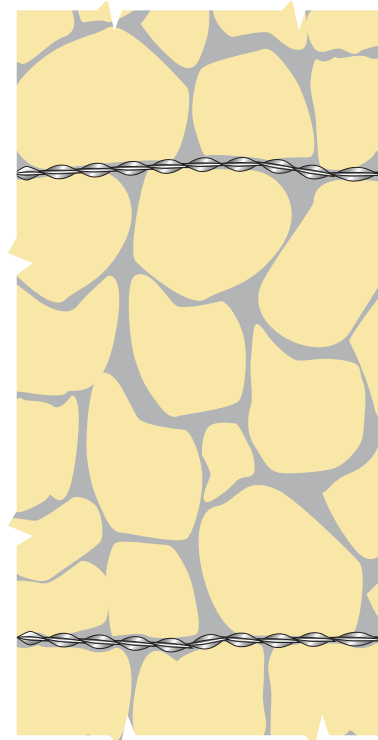
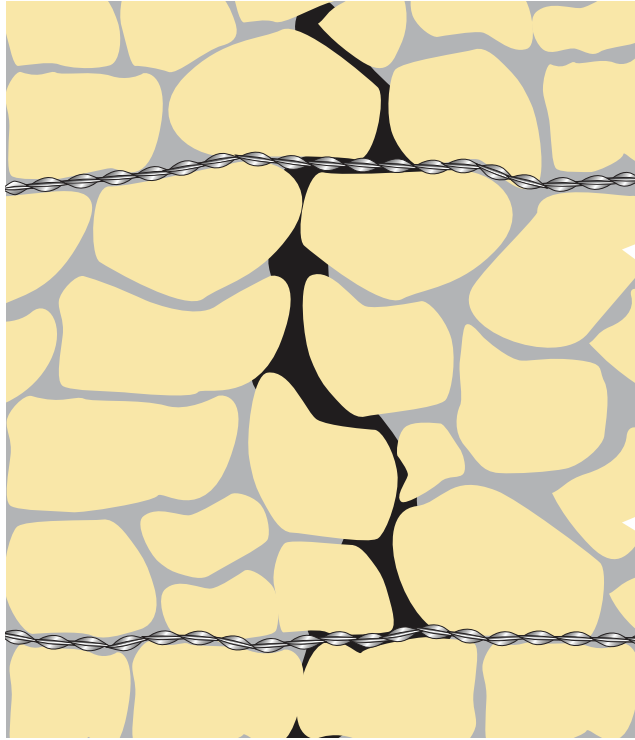
1. Using a twin-bladed diamond-tipped wall chaser and vacuum attachment, cut slots into the horizontal mortar joints to the specified depth and at the required vertical spacing. Ensure that NO mortar is left attached to the exposed stone surfaces in order to provide a good masonry / grout bond. This operation may require the use of hand tools to remove the mortar due to the random nature of the stone.
2. Remove ALL dust and mortar from the slots and thoroughly flush with water. Ensure the slot is damp or primed prior to commencing step 5.
3. Mix StrucSol HSGrout using a power mixer and load into the Pointing Gun CS.
4. Fit appropriate Mortar Nozzle.
5. Inject a bead of StrucSol HSGrout, approx. 15mm deep, into the back of the slot.
6. Push the 6mm StrucSol Ultrabar into the grout to obtain good coverage.
7. Inject a second bead of StrucSol HSGrout over the exposed StrucSol Ultrabar and iron it into the slot using a finger trowel. Inject additional StrucSol HSGrout as necessary, leaving 10-15mm for new pointing.
8. Point up the slots using a matching mortar. The cracks within the wall should be weather-proofed using StrucSol TE resin or StrucSol Crack Filler and leave ready for decoration. To achieve a near perfect look, use StrucSol Stain Colour Matching mortar.
9. Clean tools with clean, fresh water.

∅ *Pointing may be carried out as soon as is convenient after the StrucSol HSGrout has started to gel.*

∅ *Coursed Stone Wall:*

In random coursed stone it is not possible to use a wall chaser. In the instance of a random coursed stone wall it may be better to use a dust extracted grinder and mortar raking chisel.

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SPECIFICATION NOTES

A	Depth of slot into the masonry to be 35mm to 45mm.
B	Height of slot to be equal to full mortar joint height, (minimum 8mm). For thin mortar joint specifications refer to the StrucSol Technical Dept..
C	StrucSol Ultrabar 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 450mm.
E	Where a crack is less than 300mm from the end of a wall or an opening, the StrucSol Ultrabar is to be continued for at least 100mm around the corner and bonded into the adjoining wall.
F	In hot conditions,, ensure the masonry is well wetted or primed to prevent premature drying of the StrucSol HSGrout due to rapid de-watering.
G	Do not use StrucSol HSGrout when the air temperature is 4°C and falling, or apply over ice. In all instances, the slot MUST be thoroughly damp or primed prior to injection of the StrucSol HSGrout.
The above specification notes are for general guidance only and StrucSol reserve the right to amend as necessary.	