

Permagard Crack Stitching Kit

The permanent solution to vertical or stepped cracks in masonry walls

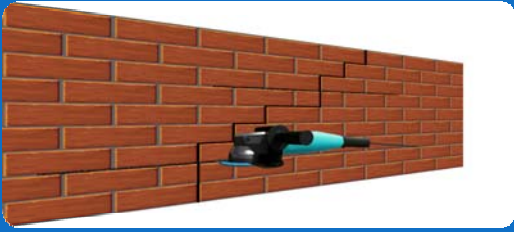


This kit has been designed to contain all the components needed to allow you to repair vertical or stepped cracks in masonry walls. Repairs carried out using this system will stabilise the structure, provide resistance against further cracking and restore the structural integrity of the masonry.

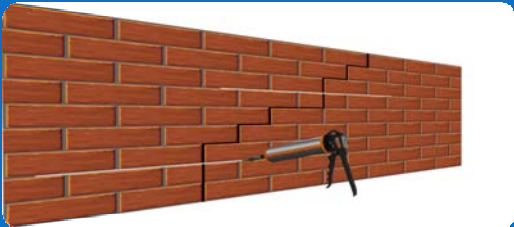
Repairs using this system are made quickly with the minimum of disruption, are inexpensive and cause no further damage to the wall. The stainless steel helical bars are placed into horizontal slots which are cut into the mortar bed joints across the crack and then they are grouted into place using Permacem Grout.

Permacem Grout is a shrink compensated grout with added polymer additives which sets around the helical bar and develops compressive strength rapidly to prevent axial deflection of the helical bar under load conditions.

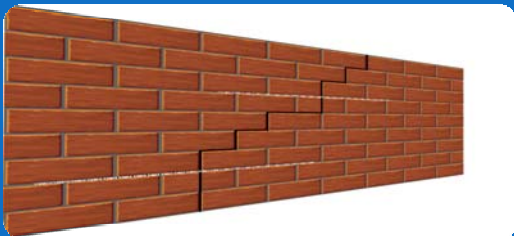
Installation



Cut a slot in the mortar bed just over 500mm either side of the vertical crack and to the correct depth, dependent on the wall thickness (see below). Remove the mortar including all loose material and then flush the joint with water. Normally vertical spacing is every 4 - 6 brick courses but check with a structural engineer if in doubt.



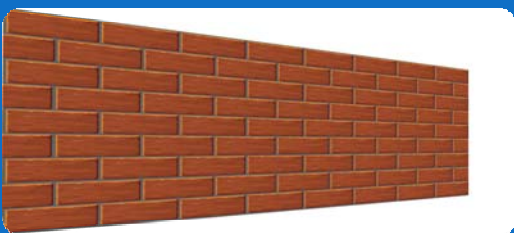
Mix the grout thoroughly using the paddle mixer provided and load into the gun. Pump the grout to the back of the slot in a continuous even bead to approximately two thirds of the slot depth.



Push the helical bar firmly into the grout, making sure that the bar extends 500mm either side of the crack.



Apply a second bead of grout into the slot making sure that the bar is completely covered and with the trowel provided force the grout into the slot until it is approximately 10mm from the surface and ensuring that the bar and grout are firmly packed.



Finish by making good the bed joint and filling the vertical crack with an appropriate filler to match.

Application Guide

Wall Thickness	Depth of Slot	Depth of Bar
102mm	30mm	20mm
215mm	40mm	30mm

Notes: If two or more cracks are close together then bars can be lapped ensuring that the bar extends 500mm either side of the outer cracks and that the laps are at least 500mm.

Helical bars should be bent and bonded at least 100mm around corners when cracks are within 500mm of the corner or a reveal etc. This system can be used for rendered or plastered walls. It is important before carrying out the installation of this system that the cause of the cracking is established and remedied and a structural engineer consulted if necessary.