HELIFIX
SUSTAINABLE STRUCTURAL SOLUTIONS

PatchPin

Concrete patching pin

Applications

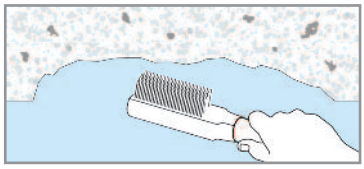
- Stainless steel helical pin for providing a strong mechanical key when patch repairing reinforced concrete

Features

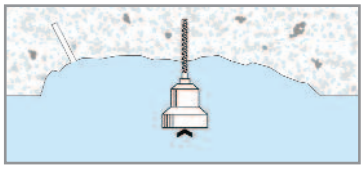
- Forms powerful bond with patching mortar
- Additional mechanical bonding security
- Can be installed vertically or angled and bent after installation, if required
- Requires no chemicals
- Quick, simple and effective

Technical Specifications

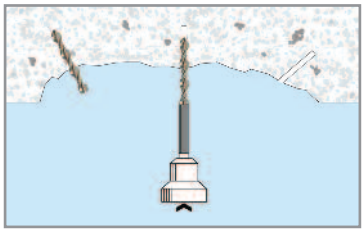
Installation Procedures



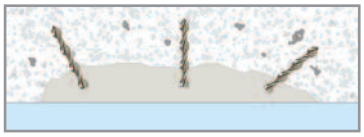
1. Remove all loose concrete from the area to be patched. Hammer tap the area to establish if any hollows are present and break back to sound concrete. Remove any dust and debris with a stiff wire brush. Clean and treat any exposed embedded steel rebar with a suitable epoxy coating.



2. Drill pilot holes, vertically or at an angle of up to 45°, to the correct diameter and spacing into the concrete (using an SDS rotary hammer drill).



3. Fit the PatchPin support tool over the drill bit and insert the PatchPin into the tool. Install the PatchPin into the pilot hole with the SDS rotary hammer drill set to hammer only. Ensure that the outer end of the pin will be below the face of the concrete patch – the pin can be bent, if required.



4. Apply the patching mortar, as required, in accordance with the Manufacturer's instructions. Fill all gaps and make good the surface.

Material:	Austenitic stainless steel Grade 316 as standard (Grade 304 also available)
Diameter:	8mm
Length:	70mm as standard – 100mm also available
Diameter of pilot hole:	6.5mm
Depth of pilot hole:	30mm – 50mm
Pin spacing and positioning:	Can be varied according to site conditions but should start 50mm from the edge of the patched area
Pin density:	Intermediate pins should be at 150mm – 200mm centre spacing. Extra pins may be used at the discretion of the engineer / site manager. There should be a minimum of two pins per patch
NOTE:	The outer end of installed pins must be below the face of the concrete patch. To ensure this occurs pins may be bent as required.
Bonding agent:	None required
RECOMMENDED TOOLING	
For drilling clearance hole:	SDS rotary hammer drill 650w/700w
For installing PatchPin:	PatchPin support tool with SDS rotary hammer drill 650w/700w **set on hammer only**

Relevant Repair Detail: CR01

Scan the QR Code for full Product Information, Case Studies and downloadable Repair Details

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