



Engineering Hub

Site QA/QC checklists

09

Concrete repair

Repair mortars: survey, breakout to sound concrete, steel protection, placement and curing.

Systems

Concrete repair

Inspection record

Project	Location / area	Inspector	Date	Signature
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09.1 Before: surface acceptance

Check	Method or record	Acceptance	Remarks
☐ Repair areas marked by tapping and visual survey; carbonation and cover measured where needed ◆ Hold point	BS EN 14630 for carbonation depth	Every repair area marked and recorded on a drawing	
☐ Damaged concrete broken out to sound concrete, and behind corroded bars by the specified clearance	Visual check and tapping; clearance behind the bars measured	Sound concrete on every face; corroded bars exposed all round	
☐ Saw-cut edges, no feather edges	Visual check	Square edges to the specified depth; no feather edges	
☐ Bars cleaned of rust; section loss assessed and bars added where the engineer decides ◆ Hold point	Recorded and photographed	Bars free of loose rust; the engineer's decision recorded where section was lost	

09.2 During application

Check	Method or record	Acceptance	Remarks
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☐	Reinforcement primer applied within its specified time	Times recorded per area	Bars fully coated; mortar placed within the specified time	
☐	Substrate pre-wetted or bonding coat applied, per the mortar system	Visual check before placing the mortar	Damp with no free water, or the bonding coat still tacky	
☐	Repair mortar within the allowed layer thickness, compacted with no voids ◆ Hold point	Visual during placement	Layers within the allowed thickness; no voids or sagging	
☐	Protected from sun and hot wind	Shading planned; conditions logged	No rapid drying or plastic cracking	

09.3 After: testing and handover

Check	Method or record	Acceptance	Remarks
☐ Moist curing or curing compound, per the system	Curing log	Cured for the full specified period	
☐ Tap test for hollow areas	Hammer tapping of every repair	No hollow sound; any hollow repair redone	
☐ Pull-off bond test where specified	EN 1542	Value not below the specification; failure mode recorded	
☐ Protective coating where specified	See the protective coatings checklist	Applied and accepted on its own checklist	
☐ Records: products and batch numbers, weather, checks and photos	The project quality file	Complete, signed and filed for handover	



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