



Car Parks - Concrete Repair & Protection



1. Clean and repair all surfaces by suitable means.
2. Undertake condition survey to identify defective concrete.
3. Seal cracks with Injection Resin EP or Injection Resin PUR.
4. Break out all defective concrete and prepare exposed steel reinforcement.
5. Prime steel reinforcement with Betofix RM and Rust Inhibitor M.
6. Repair all concrete decks with Betofix R4.
7. Repair all other concrete elements with Betofix R2.
8. Apply Migratory Corrosion Inhibitor to all repaired and un-repaired concrete surfaces.
9. Apply Betofix RM as a surface levelling mortar to all concrete surfaces (excluding decks).
10. Apply Concrete Acrylic to all concrete surfaces.
11. Install Deck Waterproofing system to all decks – see separate specification guides.

Properties:

- | | |
|--|---|
| <input type="checkbox"/> EN 1504 repair system | <input type="checkbox"/> Mortars can be feather edged |
| <input type="checkbox"/> Water based / low consumption MCI | <input type="checkbox"/> Deck waterproofing system |
| <input type="checkbox"/> Anti-carbonation coatings | <input type="checkbox"/> Fast cure mortars |

Car Parks - Concrete Repair & Protection

Item	Operation	Material	Consumption Rate
1	Surface Preparation and Cleaning Clean and prepare the concrete surfaces to remove all old coatings, organic growth, cement laitance and any other contaminants.		
2	Crack Injection Static cracks are injected with Remmers Injection Resin EP. On dynamic/moving cracks Injection Resin PUR should be used.	Injection Resin EP Injection Resin PUR	1.1kg/ltr 1.1kg/ltr
3	Remove Damaged Concrete Break out and remove all damaged concrete. Any corroded reinforcement must be completely exposed. The exposed steel reinforcement should be mechanically cleaned to a standard equivalent to Sa 2.5 of ISO 8501-1. Note: With Betofix RM/R2 it is not necessary to angle cut the edges.		
4	Steel Priming Betofix RM with Rust Inhibitor M is used as a slurry coating to protect the steel.	Betofix RM with Rust Inhibitor M	1.3kg/m ² 0.7kg/m ²
5	Concrete Deck Repairs Betofix R4 is applied to repair and replace the damaged areas, normally in one working operation.	Betofix R4	1.8kg/m ² /mm
6	Concrete Repairs to Other Concrete Elements Remmers Betofix mortars are applied to repair and replace the damaged areas, normally in one working operation.	Betofix R4 Betofix R2	1.8kg/m ² /mm 1.2kg/m ² /mm
7	Corrosion Inhibitor Application (Optional) Apply Migrating Corrosion Inhibitor (MCI) to all of the concrete surfaces.	Remmers MCI	0.27 ltr/m ²
8	Surface Levelling Fill all blow holes and level surface as required using Betofix RM mortar.	Betofix RM	1.2kg/m ² /mm
9	Anti-Carbonation Coating Apply Concrete Acrylic to all concrete surfaces.	Concrete Acrylic	0.2 ltr/m ²
10	Deck Waterproofing See separate specification guide.		

Notes: Application rates and coverage are theoretical and do not allow for surface profile variation, wastage or variation in application technique. In the case of high substrate roughness you should allow for additional levelling material to be used.