



Engineering Hub

Site QA/QC checklists

11

Resin flooring and microcement

Epoxy, car-park and microcement floors: slab moisture, mechanical preparation, consumption and cure.

Systems

Epoxy flooring

Car-park coatings

Microcement

Inspection record

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

Check	Method or record	Acceptance	Remarks
☐ Slab moisture within the system limits ◆ Hold point	ASTM F2170 or the method the system specifies	Reading within the system limit before priming	
☐ Mechanical preparation by shot blasting or grinding removes laitance and gives the specified profile ◆ Hold point	Profile (CSP) per ICRI 310.2R	Laitance removed; profile matches the specified CSP	
☐ Slab surface strength where specified	Pull-off to ASTM D7234	Value not below the specification; failure mode recorded	
☐ Cracks treated; the joints to be carried through the floor identified	Marked on the floor plan	Cracks filled; movement joints carried through, not covered	
☐ Slab and air temperature, humidity and dew point logged	Logged at the start and during the shift	Surface temperature above the dew point by the specified margin	

11.2 During application

Check	Method or record	Acceptance	Remarks
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☐	Mix ratio, mechanical mixing and pot life	Watched at mixing; batch and times recorded	Full kits mixed mechanically; nothing used past its pot life	
☐	Primer, then the body coat at the specified consumption per area ◆ Hold point	Material used ÷ area	Consumption not below the specified rate in every bay	
☐	Anti-slip aggregate where specified, evenly broadcast	Visual check against the approved sample	Even texture matching the approved sample	
☐	Car parks: line marking to the approved layout and colours	Measured against the approved layout	Bays, arrows and colours as approved; clean, straight edges	
☐	Microcement: base and finish coats as specified, sanding between coats per the system	Coat log per area; a reference sample panel	Finish matches the approved sample panel	

11.3 After: testing and handover

Check	Method or record	Acceptance	Remarks
☐ No traffic until cured enough for foot, then for vehicle traffic	Barriers and signs; cure time recorded	Opened to foot, then vehicle traffic only after the TDS times	
☐ No bubbles, pinholes, sticky patches or colour variation ◆ Hold point	Visual check	Even finish; defects repaired before handover	
☐ Protective sealer on microcement per the system	Coat log; a water-drop test	Even sealer coats; water beads on the surface	
☐ Records: products and batch numbers, weather, checks and photos	The project quality file	Complete, signed and filed for handover	



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