



Engineering Hub

Site QA/QC checklists

02

Liquid membranes

Polyurethane, polyurea and clear PU coating: moisture, primer, thickness and cure.

Systems

Liquid PU

Polyurea

Clear PU

Inspection record

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

Check	Method or record	Acceptance	Remarks
☐ Substrate sound and clean: laitance, curing compounds and oil removed ◆ Hold point	Visual; mechanical preparation recorded	Clean, sound, open surface; no contamination left	
☐ Substrate moisture within the TDS limits ◆ Hold point	Measured and recorded, e.g. ASTM D4263 or a moisture meter	Reading within the TDS limit before priming	
☐ Cracks treated; fillets at corners	Visual, against the crack map and details	Cracks treated as specified; fillets at every internal corner	
☐ Substrate and air temperature, humidity and dew point within the TDS limits	Logged at the start and during the shift	Surface temperature above the dew point by the specified margin	
☐ For clear coatings: tiles sound, not hollow, joints repaired; adhesion test where needed	Tap test of the tiles; an adhesion test patch where needed	No hollow tiles or open joints; the test patch adheres	

02.2 During application

Check	Method or record	Acceptance	Remarks
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☐	The primer specified for the substrate, at its rate and within its recoat window ◆ Hold point	Product, batch and time recorded	Correct primer, even cover; next coat within the recoat window	
☐	Reinforcing fabric at drains, upstands, corners and penetrations	Visual check at each detail	Fabric fully embedded; no wrinkles or dry areas	
☐	Wet-film thickness measured on every coat; consumption tracked per area	WFT gauge readings; material used ÷ area	No reading below the specified film; consumption not below the rate	
☐	Number and direction of coats and recoat windows per the system	Coat log per area, with times	All coats in the specified directions, within their recoat windows	
☐	No pinholes, bubbles or thin spots; repaired before the next coat	Visual, in good light	Continuous film; every defect repaired and re-coated	
☐	For polyurea: equipment pressure, temperature and ratio logged; a test spray at the start of the day	Rig log and a test patch checked before work	Settings within the product limits; test patch cures evenly, nothing soft or tacky	

02.3 After: testing and handover

Check	Method or record	Acceptance	Remarks
☐ Protected from rain and traffic until cured, per the TDS	Barriers and signs; cure time recorded	No traffic marks or rain damage before cure	
☐ Dry-film thickness where the specification calls for it	Samples or gauge	Not below the specified minimum dry-film thickness	
☐ Adhesion test where specified	Pull-off to ASTM D7234 on concrete	Value not below the specification; failure mode recorded	
☐ Flood test where applicable ◆ Hold point	See the flood-test checklist	Passed and signed before any cover	
☐ UV-resistant top coat wherever the system stays exposed	Visual check of the exposed areas	Every exposed area covered, with no gaps	
☐ Records: products and batch numbers, weather, checks and photos	The project quality file	Complete, signed and filed for handover	



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