



Engineering Hub

Site QA/QC checklists

05

Tank linings

Tank linings including drinking-water tanks: approval, confined-space safety, repairs, continuity and cure before filling.

Systems

Tank epoxy

Cementitious

Polyurea

Inspection record

Project

Location / area

Inspector

Date

Signature

05.1 Before: surface acceptance

Check Method or record Acceptance Remarks

☐	The product's drinking-water approval and its conditions on file ◆ Hold point	The certificate itself checked	A valid approval covering the product and its conditions of use	
☐	Confined-space permit, gas testing, ventilation and a standby person	Permit, gas readings and the attendance log	Safe readings before entry and throughout the work	
☐	Honeycombing, cracks and tie holes repaired; leaks injected ◆ Hold point	Repairs recorded	No active leak; repairs cured	
☐	A sound, dry, profiled and levelled surface for epoxy systems	Moisture and profile; pull-off where specified	Moisture, profile and strength within the system limits	
☐	Fillets at wall-floor junctions and corners; pipe entries detailed	Visual, against the details	Fillets continuous; every pipe entry sealed as detailed	

05.2 During application

Check Method or record Acceptance Remarks

☐	Surface temperature above the dew point by the specified margin; humidity within limits	Conditions logged	Within the limits for the whole application and cure	
☐	Mix ratio and pot life per the TDS	Watched at mixing; batch and times recorded	Full kits mixed mechanically; nothing used past its pot life	
☐	Number of coats, wet-film thickness per coat and recoat windows ◆ Hold point	Gauge readings per coat	No reading below the specified wet film; each coat within its recoat window	
☐	Continuous ventilation during application and cure	Fans running; gas readings logged	Fresh air kept up until the lining has cured	

05.3 After: testing and handover

Check	Method or record	Acceptance	Remarks
☐ Holiday (pinhole) detection where specified ◆ Hold point	ASTM D4787	No holidays; every indication repaired and re-tested	
☐ Dry-film thickness checked	Gauge, samples or consumption, as the specification allows	Not below the specified minimum dry-film thickness	
☐ Full cure for the specified period before filling ◆ Hold point	Cure log	Filled only after the specified cure time at the recorded temperature	
☐ Fill test, then cleaning and disinfection per the authority	Tightness test where specified, e.g. ACI 350.1	Water loss within the test criteria; cleaning and disinfection recorded	
☐ Records: approvals, batches, cure times and test results	The project quality file	Complete, signed and filed for handover	



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