

300-350 Micron Epoxy Floor Coating System

A high-build epoxy coating for warehouses, workshops, utility areas and floor refurbishment.

Supply and apply a solvent-free high-build epoxy floor coating system using MR. JO Floorkot - HB over a properly prepared concrete substrate, to provide a seamless, abrasion-resistant and easy-to-maintain industrial floor finish.

Two coats over the approved primer build a 300-350 micron film, followed by one clear sealing coat of MR. JO Floorkot - CLR, where a high-gloss finish or enhanced cleanability is specified. At this build the coating forms a closed, seamless surface resisting abrasion, dusting and spillage, while remaining economical to install and maintain - suited equally to new construction and to refurbishment of existing floors.

Standard Bill of Materials

Items 1-5 are the standard build-up; items 6 and 7 are specified where required. Clause references are set out in full on page 2.

#	Work Item	Description	MR. JO Product	UOM	Ref
1	Surface Preparation	Mechanically prepare to a clean, sound, open-textured surface; method per actual floor condition.	Grinding / shot blasting	Sq.m	A1 - A4
2	Concrete Repairs	Repair cracks, pits, honeycombs and spalled edges flush with the surrounding concrete.	<u>MR. JO Tecseal - CRP</u>	Kg	B1, B2
3	Crack Injection (where required)	Pressure-inject structural cracks; finish the repaired surface flush.	<u>MR. JO Inject - LVC</u>	Kg	B3.1 - B3.4
4	Primer	Seal the substrate, control porosity and establish the bond to the coating.	<u>MR. JO Eco Primer - P50I</u> (dry) / <u>MR. JO Eco Primer UPS</u> (damp)	Sq.m	C1, C2
5	Epoxy Floor Coating	Two coats of solvent-free high-build epoxy, building a 300-350 micron seamless film.	<u>MR. JO Floorkot - HB</u>	Sq.m	E1
6	Clear Sealing Coat (optional)	Clear coat for high gloss, easier cleaning and added surface protection.	<u>MR. JO Floorkot - CLR</u>	Sq.m	F2
7	Line Marking (optional)	50 / 75 / 100 mm demarcation lines for aisles, traffic routes and zones.	<u>MR. JO Floorkot - YLW</u>	Rmt	F4.1 - F4.3

MR. JO Insight

A 300-350 micron coating corrects colour, cleanability and chemical resistance. It does not correct levels. If the floor is uneven, worn hollow or has lost its surface, the coating will follow every defect faithfully - specify an underlay or screed first.

Typical Uses

Sector	Where This Floor Is Specified
Warehousing	Storage bays, racking aisles, despatch and loading areas
Engineering Workshops	Assembly bays, tool rooms, maintenance and service areas
Utility Areas	Plant rooms, corridors, stores and support spaces
Refurbishment	Existing industrial floors sealed, protected and returned to service

Reference - Standard BOQ Clauses

Full clause text from the MR. JO Standard BOQ Clause Library, for direct use in a project Bill of Quantities or tender specification

A – Surface Preparation — Select one clause based on the actual condition of the existing floor.

Ref	Typical Condition / Application	BOQ Description	UOM
A1	Sound concrete requiring normal preparation	Mechanically prepare the concrete substrate by diamond grinding to remove laitance, weak concrete and surface contamination, producing a clean, sound and open textured surface suitable for receiving the specified epoxy primer and flooring system. The prepared surface shall be cleaned and made ready to receive further epoxy treatment.	Sq.m
A2	Weak concrete requiring aggressive profiling	Mechanically prepare the concrete substrate by captive shot blasting or equivalent approved mechanical method to remove weak concrete, laitance and contaminants, producing a clean, sound and uniformly textured surface suitable for receiving the specified epoxy primer and flooring system.	Sq.m
A3	Existing floor having heavy contamination or existing coatings	Mechanically prepare the concrete substrate using suitable grinding, scarifying or other approved mechanical methods necessary to remove existing coatings, oil contamination and weak concrete to expose a sound substrate suitable for receiving the specified epoxy flooring system.	Sq.m

Ref	Typical Condition / Application	BOQ Description	UOM
A4	Where acid etching is specifically approved	Prepare the concrete surface by acid etching using a suitable acid solution followed by washing and neutralisation where required to produce a clean concrete surface suitable for receiving the specified epoxy primer and flooring system.	Sq.m

B - Concrete Repairs — B1 and B2 as required. B3 is the full structural crack injection sequence.

Ref	Typical Condition / Application	BOQ Description	UOM
B1	Minor cracks, pits, honeycombs and surface defects	Repair minor cracks, pits, honeycombs and surface defects using <u>MR. JO Tecseal - CRP</u> , a solvent-free epoxy repair mortar. Repairs shall be completed flush with the surrounding concrete and made ready to receive the specified primer and flooring system.	Kg
B2	Damaged edges and local spalled concrete	Repair damaged concrete edges and localised spalled areas using <u>MR. JO Tecseal - CRP</u> to restore the original profile prior to installation of the flooring system.	Kg
B3.1	Structural cracks requiring epoxy injection	Drill holes and fix injection nipples at suitable spacing along the crack to facilitate pressure injection.	Nos.
B3.2	Structural cracks requiring epoxy injection	Seal the exposed crack surface using <u>MR. JO Tecseal - CRP</u> to prevent leakage of injection resin during the injection process.	Kg
B3.3	Structural cracks requiring epoxy injection	Supply and inject <u>MR. JO Inject - LVC</u> , a low-viscosity epoxy injection resin, under pressure until complete filling of the crack is achieved.	Kg
B3.4	Structural cracks requiring epoxy injection	Remove injection nipples and finish the repaired surface flush, leaving it ready to receive the specified epoxy flooring system.	Nos.

C - Primers — Select one clause based on substrate moisture condition.

Ref	Typical Condition / Application	BOQ Description	UOM
C1	Sound, dry concrete	Supply and apply <u>MR.JO Eco Primer - P50L</u> , a two-component solvent-free epoxy primer, over the prepared concrete substrate to seal the surface, improve adhesion and provide a suitable bonding layer for the specified epoxy flooring system.	Sq.m
C2	Damp concrete where drying is impractical	Supply and apply <u>MR.JO Eco Primer UPS</u> , a solvent-free moisture-tolerant epoxy primer, over the prepared concrete substrate to provide reliable adhesion and a suitable bonding layer for the specified epoxy flooring system.	Sq.m

E - Topcoat — Mandatory item for this system.

Ref	Typical Condition / Application	BOQ Description	UOM
E1	General purpose floor coating	Supply and apply two coats of <u>MR.JO Floorkot - HB</u> , followed by one clear sealing coat where a high-gloss finish or enhanced cleanability is specified, over the approved primer to provide a seamless, abrasion-resistant industrial floor coating.	Sq.m

F - Finishing & Ancillary Works — Include as specified for the project.

Ref	Typical Condition / Application	BOQ Description	UOM
F2	High-gloss finish or additional protective sealing	Supply and apply one clear solvent-free epoxy sealing coat of <u>MR.JO Floorkot - CLR</u> over the completed epoxy flooring or coating system to enhance gloss, improve cleanability and provide additional surface protection where specified.	Sq.m
F4.1	Standard pedestrian walkways, equipment zones and aisle marking (50 mm wide)	Supply and apply 50 mm wide epoxy line markings using <u>MR.JO Floorkot - YLW</u> over the completed epoxy flooring system in accordance with the approved layout and manufacturer's recommendations. The completed line markings shall provide a durable, abrasion-resistant and clearly visible traffic demarcation.	Rmt
F4.2	Forklift aisles, vehicle routes and safety demarcation (75 mm wide)	Supply and apply 75 mm wide epoxy line markings using <u>MR.JO Floorkot - YLW</u> over the completed epoxy flooring system in accordance with the approved layout and manufacturer's recommendations. The completed line markings shall provide a durable and highly visible traffic guidance system.	Rmt

Ref	Typical Condition / Application	BOQ Description	UOM
F4.3	Loading bays, hazardous zones and special industrial demarcation (100 mm wide)	Supply and apply 100 mm wide epoxy line markings using <u>MR. JO Floorkot - YLW</u> over the completed epoxy flooring system in accordance with the approved layout and manufacturer's recommendations. The completed line markings shall provide durable visual segregation of work areas and traffic routes.	Rmt

Specification Notes

- For moving joints, active cracks, water leaking cracks or unusual structural conditions, consult Ask MR. JO Technical Services before finalising Section B.
- For chemical exposure outside the published resistance matrix, elevated temperatures, immersion service, UV exposure or decorative finishes, consult Ask MR. JO Technical Services.
- Standard line marking uses MR. JO Floorkot - YLW. Alternative colours, symbols, arrows, floor numbering and zebra crossings may be executed using suitable MR. JO epoxy coatings.

Ask MR. JO

For help selecting a flooring system, adapting these clauses to your site conditions or developing a complete specification, ask MR. JO. We will help you choose based on what your floor is expected to do, not simply on product names, thickness or budget. Projects falling outside the scope of these standards should be referred to Ask MR. JO Technical Services.