

2 mm Self Levelling Epoxy Flooring System

A seamless, dense, hygienic floor for food, pharmaceutical, cleanroom and precision manufacturing.

Supply and apply a 2 mm solvent-free self-levelling epoxy flooring system using MR. JO Eco Floor over a prepared concrete substrate, to produce a seamless, dense, abrasion-resistant, hygienic and easy-to-maintain industrial floor suitable for commercial and industrial applications.

Applied as a flowable layer over the approved primer, the system forms a monolithic 2 mm floor with no laps, no brush marks and no porosity - the step taken when a coating is no longer enough and the floor must withstand daily washdown, audit and continuous cleaning. Seamless epoxy coving at the floor-to-wall junction is normally specified alongside it in hygienic areas.

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, uniformly 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 prevent pinholing in the flooring layer.	<u>MR. JO Eco Primer - P50I</u> (dry) / <u>MR. JO Primer - UPS</u> (damp)	Sq.m	C1, C2
5	Self-Levelling Flooring	2 mm solvent-free self-levelling epoxy laid as one continuous seamless floor.	<u>MR. JO Eco Floor</u>	Sq.m	E4
6	Epoxy Coving (where specified)	25 / 50 / 75 mm seamless coving removing the floor-to-wall junction.	<u>MR. JO Eco Underlay</u> (tampable)	Rmt	F3.1 - F3.3
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 self-levelling floor levels itself over a short distance, not across a room. It will not correct slope, fall or an undulating slab. Where levels must be restored first, specify a 2 mm flowable underlay beneath it (the 3 mm multilayer system), or a 5 mm tappable screed where the concrete has to be rebuilt.

Typical Uses

Sector	Where This Floor Is Specified
Food Processing	Preparation, packing and washdown areas requiring a hygienic seamless floor
Pharmaceutical	Manufacturing suites, granulation, packing and corridor areas
Cleanrooms	Controlled environments requiring a dense, non-shedding, easily cleaned floor
Electronics & Packaging	Assembly, packing and precision manufacturing areas
General Manufacturing	Production halls requiring a dust-free, abrasion-resistant seamless finish

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 - P50I</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 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
E4	2 mm Self Levelling Floor	Supply and apply <u>MR. JO Eco Floor</u> as a 2 mm solvent-free self-levelling epoxy flooring system over the approved primer.	Sq.m

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

Ref	Typical Condition / Application	BOQ Description	UOM
F3.1	Light-duty hygienic areas	Supply and install a 25 mm x 25 mm seamless epoxy coving using <u>MR. JO Eco Underlay</u> applied at tappable consistency, integrally bonded between the floor and wall to provide a smooth, hygienic and easy-to-clean transition.	Rmt
F3.2	General industrial, food processing and pharmaceutical areas	Supply and install a 50 mm x 50 mm seamless epoxy coving using <u>MR. JO Eco Underlay</u> applied at tappable consistency, integrally bonded between the floor and wall to provide a durable, hygienic and easy-to-clean transition.	Rmt
F3.3	Heavy-duty industrial and wet processing areas	Supply and install a 75 mm x 75 mm seamless epoxy coving using <u>MR. JO Eco Underlay</u> applied at tappable consistency, integrally bonded between the floor and wall to provide a robust, impact-resistant and hygienic floor-to-wall transition.	Rmt
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
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 floor rebuilding beyond 5 mm, heavy-duty loading, impact-resistant floors or unusual substrate conditions, consult Ask MR. JO Technical Services.
- Where chemical exposure, elevated temperature, immersion service or antistatic performance is required, this system should be replaced by the corresponding chemical-resistant or antistatic flooring system rather than modified.
- Coving is built on site using MR. JO Eco Underlay at tappable consistency; aggregate grading and formulation may be adjusted to suit the specified coving profile and service conditions.

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 outside the scope of these standards should be referred to Ask MR. JO Technical Services.