

5.5-6 mm Heavy Duty Epoxy Flooring System

Built for forklift traffic, point loading, impact and heavy engineering.

Supply and apply a 5.5-6 mm heavy-duty epoxy flooring system using [MR. JO Underlay - TMP](#) and [MR. JO Floorkot - HB](#), comprising a 5 mm tappable epoxy screed finished with two coats of high-build epoxy coating, to provide a dense, impact-resistant and durable industrial floor suitable for heavy traffic and severe service conditions.

The screed carries the load and the coating carries the service. A 5 mm highly filled tappable screed rebuilds the concrete into a dense body able to take point loads, dropped steel and continuous wheel traffic; two coats of high-build epoxy then close and seal it into a cleanable, dust-free working surface.

Standard Bill of Materials

Items 1-6 are the standard build-up; items 7 and 8 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	Aggressive mechanical preparation to expose sound concrete able to carry a bonded screed.	Shot blasting / heavy grinding	Sq.m	A1 - A4
2	Concrete Repairs	Repair cracks, pits, honeycombs and spalled edges flush with the surrounding concrete.	MR. JO Tecseal - CRP	Kg	B1, B2
3	Crack Injection (where required)	Pressure-inject structural cracks; finish the repaired surface flush.	MR. JO Inject - LVC	Kg / Rmt / Nos.	B3.1 - B3.4
4	Primer	Seal the substrate and establish the bond; P50i on dry concrete, UPS where damp.	MR. JO ECO PRIMER - P50i / MR. JO Primer - UPS	Sq.m	C1, C2
5	Tappable Epoxy Screed	5 mm dense, highly filled tappable screed rebuilding the concrete for impact and point loads.	MR. JO Underlay - TMP	Sq.m	D2
6	Epoxy Floor Coating	Two coats of solvent-free high-build epoxy closing and sealing the screed.	MR. JO Floorkot - HB	Sq.m	E1
7	Clear Sealing Coat (optional)	Clear coat for high gloss, easier cleaning and added surface protection.	MR. JO Floorkot - CLR	Sq.m	F2
8	Line Marking (optional)	50 / 75 / 100 mm demarcation lines for forklift aisles, routes and zones.	MR. JO Floorkot - YLW	Rmt	F4.1 - F4.3

MR. JO Insight

Thickness alone does not make a floor heavy duty. What resists impact is the density and aggregate structure of the tappable screed; what preserves it is the bond to the concrete beneath. Preparation is therefore the most important line item in this BOQ, not the least important.

Typical Uses

Sector	Where This Floor Is Specified
Heavy Engineering	Fabrication bays, press shops and heavy assembly areas
Machine Foundations	Plinths, machine bases and equipment surrounds taking point loads
Steel Fabrication	Cutting, welding and handling areas exposed to dropped steel
Forklift & Impact Areas	Traffic aisles, load-out bays and areas under continuous wheel traffic

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. A2 or A3 is normally appropriate for this system.

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
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

D - Underlays & Screeds — Mandatory item for this system.

Ref	Typical Condition / Application	BOQ Description	UOM
D2	Floor requiring rebuilding	Supply and apply <u>MR. JO Underlay - TMP</u> as a 5 mm tappable epoxy screed to rebuild damaged concrete and provide a dense, durable substrate ready to receive 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
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

- Where plant downtime is critical, the fast-curing MR. JO Ecounderlay - iTMP screed variant may be specified in place of TMP. Consult Ask MR. JO Technical Services for cure schedules and return-to-service times.
- Where heavy-duty service coincides with chemical exposure, replace items D2 and E1 with a chemical-resistant screed and topcoat and refer to the chemical-resistant systems.
- For floor rebuilding beyond 5 mm, extreme loading or thermal cycling, consult Ask MR. JO Technical Services.

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.