

Epoxy Wall Protection System

Walls that clean as easily as the floor.

Supply and apply a seamless epoxy wall protection system using MR. JO Wallkot - HB over prepared wall surfaces, to provide a washable, hygienic and durable protective finish suitable for industrial and cleanroom environments.

A seamless, washable floor in a room with porous, emulsion-painted walls is half a specification. In cleanrooms, pharmaceutical facilities, food processing areas, hospitals and laboratories the walls are wiped, sprayed and sanitised on the same schedule as the floor and have to survive it. Two coats produce a continuous, non-porous film that withstands repeated wet cleaning; a clear sealing coat is added where a high-gloss surface is specified.

Standard Bill of Materials

Items 1-4 are the standard build-up; items 5-7 as specified. Clauses in full on page 2.

#	Work Item	Description	MR. JO Product	UOM	Ref
1	Surface Preparation	Mechanically prepare the wall to remove laitance, weak plaster, existing paint and contamination.	Grinding / mechanical preparation	Sq.m	A1 - A4
2	Surface Repairs	Where required: repair cracks, pits and damaged edges to a true plane - defects show at eye level.	<u>MR. JO Tecseal - CRP</u>	Kg	B1, B2
3	Primer	Seal the wall surface and establish the bond; P50i on dry surfaces, UPS where damp.	<u>MR. JO Eco Primer - P50i</u> / <u>MR. JO Primer UPS</u>	Sq.m	C1, C2
4	Epoxy Wall Coating	Two coats forming the seamless, washable, hygienic non-porous wall finish.	<u>MR. JO Wallkot - HB</u>	Sq.m	E2
5	Clear Sealing Coat	Optional: one clear coat for high gloss and additional cleanability.	<u>MR. JO Floorkot - CLR</u>	Sq.m	F2
6	Chemical Resistant Walls	Where walls face chemical attack: non-sag chemical-resistant coating in place of or over Wallkot HB.	<u>MR. JO Protectokot vHB</u>	Sq.m	E6
7	Coving at Floor Junction	Where a floor system is installed together: seamless coving completing the surface.	<u>MR. JO Eco Underlay</u> (tampable)	Rmt	F3.1 - F3.3

MR. JO Insight

Walls and floors should be specified as one package, not two trades. When they are tendered separately the floor-to-wall coving falls between the two scopes - and that junction is exactly where hygiene is won or lost.

Typical Uses

Sector	Where This Floor Is Specified
Cleanrooms	Controlled environments requiring a continuous washable surface floor to ceiling
Pharmaceutical Facilities	Manufacturing suites, corridors and change areas under sanitisation regimes
Food Processing Areas	High-care preparation, packing and washdown areas
Hospitals & Laboratories	Clinical, sterile handling and bench areas requiring wipeable walls

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 wall surface.

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 - Surface Repairs — Include where required. Wall repairs must be finished to a true plane, not merely filled.

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

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 — E2 is mandatory. Include E6 where the walls also require chemical resistance.

Ref	Typical Condition / Application	BOQ Description	UOM
E2	General purpose wall coating	Supply and apply two coats of <u>MR.JO Wallkot - HB</u> , followed by one clear sealing coat where a high-gloss finish is required, over the approved primer to provide a seamless, washable and hygienic epoxy wall finish.	Sq.m
E6	Vertical chemical resistant coating	Supply and apply two to three coats of <u>MR.JO Protectokot vHB</u> over the approved primer to provide a seamless non-sag chemical-resistant coating for vertical concrete or steel surfaces.	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
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

Specification Notes

- Where the walls are exposed to chemical attack, specify MR. JO Protectokot vHB, a non-sag chemical-resistant coating, in place of or in addition to Wallkot HB.
- Selection of the clear sealing coat depends upon the underlying system and the intended service environment. Consult Ask MR. JO Technical Services where chemical resistance, UV exposure or specialised performance is required.
- Plastered, blockwork and previously painted wall substrates behave differently and should be assessed on site before the preparation clause is fixed.

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.