

TECHNICAL DATA SHEET

REPAIR MORTARS & COMPOUNDS

MortarBond EM90

THREE-PACK SOLVENT-FREE EPOXY REPAIR MORTAR

Rayson MortarBond EM90 is a three-pack, solvent-free epoxy mortar — resin, hardener and graded aggregate — that reinstates concrete floors with a non-shrink, highly abrasion-resistant repair.

The three components combine into a trowellable mortar that hardens without shrinkage to a compressive strength of 80 N/mm² at 7 days.

KEY PROPERTIES

- Non-shrink repair with compressive strength of 80 N/mm² at 7 days
- Tough, highly abrasion-resistant for forklift traffic
- Good resistance to chemicals and solvents
- Solvent-free, three-pack system with good adhesion



MIX RATIO

2:1:30

A:B:C by kg

POT LIFE

45 min

at 30 °C

COMPRESSIVE

80 N/mm²

at 7 days

FULL CURE

7 days

temperature dependent

PACK SIZE

33 kg set

2+1+30 kg

02 RECOMMENDED USES

- Repairing spalls, potholes and worn areas in concrete floors
- Reinstating joint edges and arrises before coating
- Forming durable epoxy mortar patches in trafficked areas

03 SUITABLE SUBSTRATES

- Mechanically prepared and primed concrete floors

05 SYSTEM ROLE



Figure 1 — Typical system build-up (top to bottom). Layer thicknesses are system-dependent; confirm the specification for your project.

Technical data & application controls

Control the substrate, mix, application conditions and cure before handover.

SOURCE TECHNICAL DATA

SURFACE PREPARATION	Prepare concrete mechanically; remove weak concrete, open voids, reinstate imperfections and vacuum dust. New concrete at least 28 days old.
MIXING / DILUTION	Part A : Part B : Part C = 2 : 1 : 30 by kg; no thinner; pot life 45 minutes at 30 °C.
APPLICATION METHOD	Steel trowel.
COVERAGE	Available from the Rayson technical team on request.
APPLICATION CONDITIONS	Substrate moisture max 5%; cure between +10 °C and +35 °C; pull-off above 1.5 N/mm².

CONDITIONS, PACKAGING & STORAGE

DRYING & CURING	Touch dry 4 hours at 30 °C; hard dry 16 hours; full cure 7 days.
RECOAT INTERVAL	Available from the Rayson technical team on request.
FILM / THICKNESS	Placed and trowelled to required repair depth.
PACK SIZES	33 kg set: Part A 2 kg resin, Part B 1 kg hardener, Part C 30 kg aggregate.
STORAGE	Store unopened in a cool, dry, covered area.
SHELF LIFE	Available from the Rayson technical team on request.

07 APPLICATION WORKFLOW

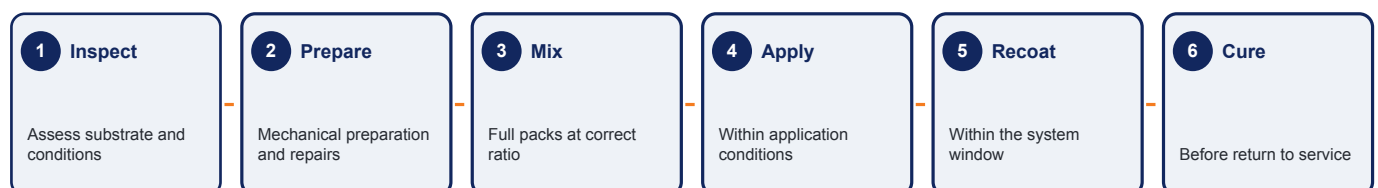


Figure 2 — Application workflow. Each stage is a hold point: confirm the previous stage is complete and within specification before proceeding.

Specify, apply and verify the system

08 RECOMMENDED SYSTEM

Floor repair and recoat

- 1 Cut back and mechanically prepare the damaged area
- 2 Prime with Rayson PrimeBond E20; confirm selection with technical team
- 3 Trowel Rayson MortarBond EM90 and cure before overcoating

09 LIMITATIONS

- Place mixed mortar within its 45-minute pot life at 30 °C
- Requires a compatible epoxy primer for reliable adhesion
- Full mechanical and chemical service only after 7-day cure
- Epoxy chemistry — repairs left uncoated outdoors will yellow

10 HEALTH & SAFETY

Two-component product. Wear gloves, eye protection and suitable respiratory protection where ventilation is limited. Avoid skin and eye contact. Keep out of reach of children. Consult the Safety Data Sheet (in preparation) before use.

DISCLAIMER

The information in this data sheet is given in good faith and reflects typical values and general good practice. Because site conditions and workmanship are beyond our control, Rayson gives no warranty implied from this document; users should verify suitability for their specific application and confirm they are working from the current issue. For project-specific advice, contact the Rayson technical team.

RAYSON HIGH PERFORMANCE COATINGS

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