REPAIR MORTARS & COMPOUNDS

PatchBond EP220

TWO-COMPONENT THIXOTROPIC EPOXY ADHESIVE & REPAIR COMPOUND

Rayson PatchBond EP220 is a two-component, solvent-free thixotropic epoxy adhesive and repair compound with exceptional sag resistance for vertical, overhead and mat-damp concrete repairs.

Its thixotropic body holds at 13–15 mm on vertical surfaces without sagging, allowing coving, joint arrises, overhead patches and bonded fixings to be built in place.

KEY PROPERTIES

- Exceptional sag resistance — holds 13–15 mm on vertical surfaces
- Moisture-tolerant — bonds to mat-damp concrete
- Hardens without shrinkage; impermeable to liquids and water vapour
- High bond strength across concrete, brick and masonry



Illustration — two-part set, Part A + Part B. Pack sizes: see this data sheet.

MIX RATIO	POT LIFE	COVERAGE	PACK SIZE	CURE
2:1	Up to 30 min	Up to 1.90 kg/m²	4/8 + 2/4 kg	Project-specific
A:B by weight	at 28 °C	per mm thickness	per set	technical team

01 RECOMMENDED USES

- Filling voids, cracks and joints in concrete
- Bonding metal profiles and fixtures onto vertical surfaces
- Repairs to fibre cement, stone, ceramics, wood, brick and masonry
- Non-sag repair mortar on vertical and overhead faces

02 SUITABLE SUBSTRATES

- Concrete, including wet or mat-damp surfaces with no standing water
- Fibre cement, hard natural stone and ceramics
- Wood, polyester, epoxy and glass
- Bricks, mortar and masonry

03 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	Substrate dry or mat-damp with no standing water; prepare mechanically, open voids and vacuum dust. Brush compound into substrate.
MIXING / DILUTION	Two pre-weighed parts, 2:1 A:B by weight; low-speed drill and paddle 3–5 minutes; avoid aeration.
APPLICATION METHOD	Spatula, trowel, notched trowel or gloved hand.
COVERAGE	Approximately up to 1.90 kg/m² per mm, subject to conditions and porosity.
APPLICATION CONDITIONS	Substrate minimum 10 °C; cure between +10 °C and +30 °C; no standing water.

CONDITIONS, PACKAGING & STORAGE

DRYING & CURING	Available from the Rayson technical team on request.
RECOAT INTERVAL	Available from the Rayson technical team on request.
FILM / THICKNESS	Apply to required repair or bonding thickness.
PACK SIZES	Part A 4 or 8 kg / Part B 2 or 4 kg per set.
STORAGE	Minimum 12 months at 5–30 °C unopened; protect from sunlight.
SHELF LIFE	Approximately 12 months unopened; sunlight exposure reduces shelf life.

04 APPLICATION WORKFLOW

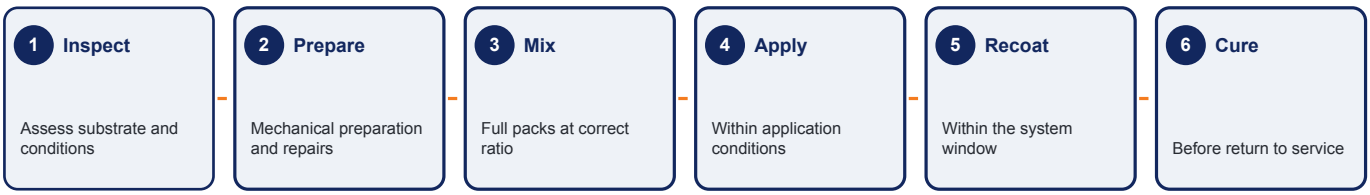

Figure 2 — Application workflow. Each stage is a hold point: confirm the previous stage is complete and within specification before proceeding.

Specify, apply and verify the system

05 RECOMMENDED SYSTEM

Crack and joint repair before coating

1. Mechanically prepare and vacuum clean
2. Work Rayson PatchBond EP220 into the substrate and fill flush
3. Overcoat with the specified floor system once cured

Vertical bonding of fixtures

1. Prepare both bonding faces and apply EP220 up to 5 mm
2. Position element and prop for at least 12 hours

06 LIMITATIONS

- Minimum substrate temperature 10 °C; cure between +10 °C and +30 °C
- Vertical metal-profile bonding thickness must not exceed 5 mm
- Bonded vertical elements must be propped at least 12 hours
- Substrate may be mat-damp but must have no standing water

07 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
Veritas Nova Private Limited · UEN 202650473C
Singapore
Tel / WhatsApp: +65 9821 9129
support@raysonpaint.com.sg
raysonpaint.com.sg/products/patchbond-ep220/