PRIMERS & BONDING COATS

# PrimeBond EP110

## SOLVENT-FREE EPOXY BONDING PRIMER

Rayson PrimeBond EP110 is a two-component, medium-viscosity, solvent-free epoxy bonding primer that anchors resin floor systems to concrete, screed, asphalt and prepared metal — on dry or damp substrates.

PrimeBond EP110 is the workhorse primer of the Rayson range. A medium-viscosity, solvent-free two-component epoxy, it penetrates mechanically prepared substrates and forms the adhesion bridge that the rest of the floor system depends on. In pull-off testing on properly prepared concrete, bond strength exceeds the cohesive strength of the concrete itself — failure occurs in the substrate, not the primer.

### KEY PROPERTIES

- Solvent-free — usable in unventilated and enclosed areas
- Applies to dry or damp surfaces
- Excellent adhesion to mechanically prepared substrates — bond strength exceeds concrete cohesion
- Compatible base for Rayson epoxy and polyurethane floor systems
- Low odour




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

| MIX RATIO | COVERAGE | POT LIFE | FINAL CURE | PACK SIZE |
|---|---|---|---|---|
| 2:1 | 6–8 m²/kg | 30 min | 7 days | 20 kg set |
| A:B by weight | per coat | at 30 °C | temperature dependent | 13.34 + 6.66 kg |

## 01 RECOMMENDED USES

- Priming new and existing concrete before Rayson floor coatings
- Priming cementitious screeds, including highly absorbent substrates
- Priming over sound existing epoxy flooring before recoating
- Priming asphalt surfaces before compatible overlays
- Priming mechanically prepared metal surfaces

## 02 SUITABLE SUBSTRATES

- New and existing concrete (minimum 28 days old, moisture content below 5%)
- Cementitious screeds, including highly absorbent substrates
- Sound existing epoxy flooring
- Asphalt
- Mechanically prepared metal

## 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 must be sound, clean and free of oil, grease, laitance, loose material and bond-inhibiting contaminants. Prepare concrete mechanically (captive shot blasting, milling or diamond grinding); remove weak concrete, open blowholes and voids, and reinstate imperfections with a suitable Rayson repair product. Vacuum all dust. New concrete should be at least 28 days old. |
| MIXING / DILUTION | Two pre-weighed parts, mix ratio 2:1 (A:B) by weight; mix mechanically for at least 2–3 minutes; pot life up to 30 minutes at 30 °C |
| APPLICATION METHOD | Roller, Brush, Airless spray |
| COVERAGE | 6–8 m² per kg per coat, varying with substrate condition and porosity |
| APPLICATION CONDITIONS | Minimum substrate temperature 5 °C; substrate moisture content max 5%; minimum mixing temperature +10 °C; cure between +10 °C and +35 °C; prepared substrate pull-off strength above 1.5 N/mm². |

## CONDITIONS, PACKAGING & STORAGE

| | |
|---|---|
| DRYING & CURING | Final cure 7 days |
| RECOAT INTERVAL | Overcoat once the primer is touch dry and within the system recoat window; timings temperature-dependent. |
| FILM / THICKNESS | Applied as a penetrating primer coat; consumption governs film — see coverage. |
| PACK SIZES | Part A 13.34 kg can + Part B 6.66 kg can |
| STORAGE | Minimum 12 months at 5–35 °C in unopened original packaging; protect from direct sunlight. |
| SHELF LIFE | Approximately 12 months unopened, subject to storage conditions. |

## 04 APPLICATION WORKFLOW

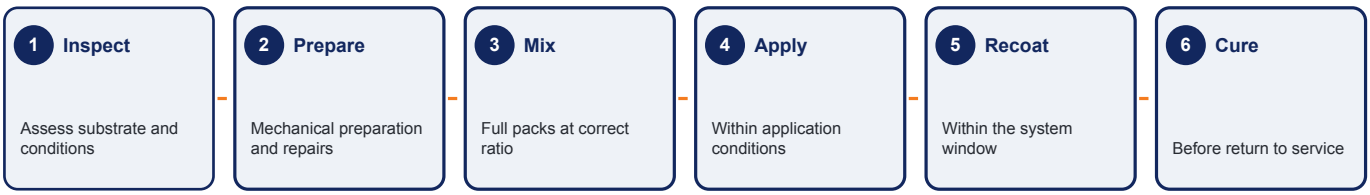


*Figure 2 — Application workflow. Each stage is a hold point: confirm the previous stage is complete and within specification before proceeding.*

# Specify, apply and verify the system

## 05 RECOMMENDED SYSTEM

### Standard epoxy floor system

1. Mechanically prepare and vacuum the substrate
2. Prime with Rayson PrimeBond EP110
3. Apply Rayson FloorGuard EP320 self-levelling body coat

### Repair-then-coat system

1. Prime with Rayson PrimeBond EP110
2. Reinstate defects with Rayson PatchBond EP210 epoxy mortar
3. Overcoat with the specified Rayson floor finish

## 06 LIMITATIONS

- Minimum substrate temperature 5 °C; curing between +10 °C and +35 °C
- Substrate moisture content must not exceed 5% — damp is acceptable, standing water is not
- Mixed material must be used within its pot life; cures faster in hot weather and in large batches
- Not a wearing surface — must be overcoated with a Rayson body coat or finish

## 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.

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