PRIMERS & BONDING COATS

PrimeBond EP115

SOLVENT-FREE EPOXY BONDING PRIMER

Rayson PrimeBond EP115 is a two-component, medium-viscosity, solvent-free epoxy bonding primer for dry or damp substrates — formulated to wet out and anchor to highly absorbent concrete, screed, asphalt and prepared metal.

PrimeBond EP115 pairs a milky epoxy resin with an amber-brown hardener into a medium-viscosity, solvent-free primer built for absorbency: on thirsty concrete and screed it soaks in and seals the surface rather than sitting on top, giving the floor system above it the grip it depends on.

KEY PROPERTIES

- Solvent-free — usable in unventilated and enclosed areas
- Especially suited to highly absorbent substrates
- Applies to dry or damp surfaces
- Excellent adhesion to mechanically prepared surfaces — bond strength exceeds concrete cohesion
- 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
4:1	6–8 m²/kg	30 min	7 days	1 / 4 kg kits
A:B by weight	per coat	at 30 °C	temperature dependent	4+1 or 16+4 kg

01 RECOMMENDED USES

- Priming highly absorbent concrete and cementitious screeds
- Priming new and existing concrete before Rayson floor systems
- Priming sound existing epoxy flooring before recoating
- Priming asphalt surfaces before compatible overlays
- Priming mechanically prepared metal
- Priming in enclosed or unventilated areas where solvent primers cannot be used

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 4:1 (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 within the system recoat window once the primer is touch dry; timings temperature-dependent.
FILM / THICKNESS	Applied as a penetrating primer coat; consumption governs film — see coverage.
PACK SIZES	Part A 4 kg / Part B 1 kg per set, or Part A 16 kg / Part B 4 kg per set
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

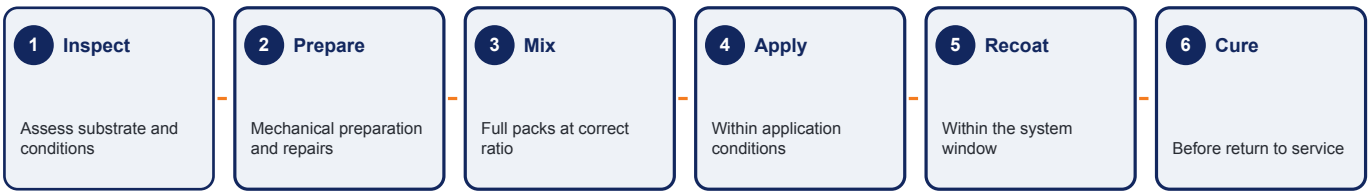

Figure 2 — Application workflow. Each stage is a hold point: confirm the previous stage is complete and within specification before proceeding.

Specify, apply and verify the system

05 RECOMMENDED SYSTEM

Standard primed floor system

1. Mechanically prepare and vacuum the substrate
2. Prime with Rayson PrimeBond EP115
3. Apply the specified Rayson body coat or finish

Absorbent-substrate system

1. Mechanically prepare porous concrete or screed
2. Prime with Rayson PrimeBond EP115 to seal and bind the surface
3. Overcoat with the specified Rayson floor system

06 LIMITATIONS

- Minimum substrate temperature 5 °C; mix and cure between +10 °C and +35 °C
- Substrate moisture must not exceed 5% — damp is acceptable, standing water is not
- Prepared substrate must reach at least 1.5 N/mm² pull-off strength
- 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.

RAYSON HIGH PERFORMANCE COATINGS
Veritas Nova Private Limited · UEN 202650473C
Singapore
Tel / WhatsApp: +65 9821 9129
support@raysonpaint.com.sg
raysonpaint.com.sg/products/primebond-ep115/