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# Rayson PrimeBond E25

Rayson PrimeBond · Primers & bonding coats

## 1. PRODUCT DESCRIPTION

Rayson PrimeBond E25 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 E25 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.

## 2. 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

## 4. 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

## 3. 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

## 5. SYSTEM ROLE

**Primer.**

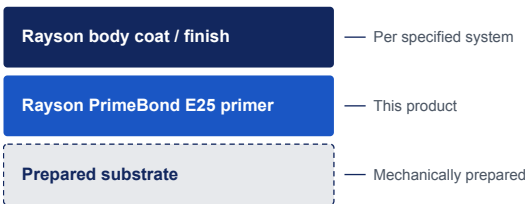


Figure 1 — Typical system build-up (top to bottom). Layer thicknesses are system-dependent; confirm the specification for your project.

## 6. 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 m <sup>2</sup> per kg per coat, varying with substrate condition and porosity                                                                                                                                                                                                                                                                                                       |

|                               |                                                                                                                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application conditions</b> | 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. |
| <b>Drying &amp; curing</b>    | Final cure 7 days                                                                                                                                                                               |
| <b>Recoat interval</b>        | Overcoat within the system recoat window once the primer is touch dry; timings temperature-dependent.                                                                                           |
| <b>Film / thickness</b>       | Applied as a penetrating primer coat; consumption governs film — see coverage.                                                                                                                  |
| <b>Pack sizes</b>             | Part A 4 kg / Part B 1 kg per set, or Part A 16 kg / Part B 4 kg per set                                                                                                                        |
| <b>Storage</b>                | Minimum 12 months at 5–35 °C in unopened original packaging; protect from direct sunlight.                                                                                                      |
| <b>Shelf life</b>             | Approximately 12 months unopened, subject to storage conditions.                                                                                                                                |

## 7. APPLICATION WORKFLOW



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

## 8. RECOMMENDED SYSTEM

### Standard primed floor system

1. Mechanically prepare and vacuum the substrate
2. Prime with Rayson PrimeBond E25
3. Apply the specified Rayson body coat or finish

### Absorbent-substrate system

1. Mechanically prepare porous concrete or screed
2. Prime with Rayson PrimeBond E25 to seal and bind the surface
3. Overcoat with the specified Rayson floor system

## 9. LIMITATIONS

- Minimum substrate temperature 5 °C; mix and cure between +10 °C and +35 °C
- Substrate moisture content 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

## 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.

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Product page:

<https://raysonpaint.sg/products/primebond-e25/>