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1. PRODUCT DESCRIPTION

Rayson FloorGuard R50 is a two-component, solvent-free high-solids epoxy floor coating that cures to a smooth gloss — or a slip-resistant finish when broadcast with aggregate — for concrete and screed under normal to medium-heavy wear.

FloorGuard R50 is the general-purpose roller-applied epoxy in the Rayson range: a solvent-free, high-solids two-component coating that lays down a hard-wearing, low-maintenance film. Applied plain it finishes smooth and glossy; broadcast with graded aggregate between coats it builds a slip-resistant texture for ramps and wet zones.

2. RECOMMENDED USES

- Roller-applied epoxy floors on concrete and screed under normal to medium-heavy wear
- Warehouses and assembly areas, vehicle workshops, garages and ramps
- Sealing coat for broadcast (aggregate) systems
- Multi-storey and underground car park decks
- Wet process areas in the food and beverage industry
- Slip-resistant floors, using an aggregate broadcast between coats

4. KEY PROPERTIES

- Solvent-free high-solids epoxy — usable in unventilated areas
- Smooth gloss finish, or slip-resistant when broadcast with aggregate
- Hard-wearing with 55 N/mm² compressive strength
- Excellent adhesion to mechanically prepared concrete
- low odour

3. SUITABLE SUBSTRATES

- New and existing concrete (minimum 28 days old, moisture content below 5%)
- Cementitious screeds
- Over a Rayson epoxy primer such as PrimeBond E20

5. SYSTEM ROLE

body coat.

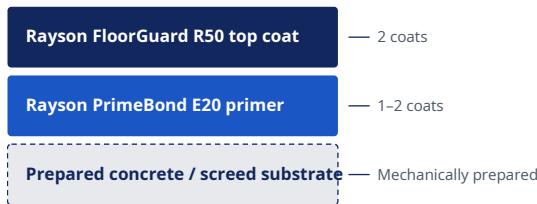


Figure 1 — Typical system build-up (top to bottom). Layer thicknesses are system-dependent; confirm the specification for your project.

6. TECHNICAL DATA

Surface preparation	[object Object]
Mixing / dilution	[object Object]
Application method	Roller, Brush, Airless spray
Coverage	[object Object]
Application conditions	[object Object]
Drying & curing	[object Object]
Recoat interval	[object Object]

Film / thickness	[object Object]
Pack sizes	[object Object]
Storage	[object Object]
Shelf life	[object Object]

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

Roller coat epoxy floor system

1. Mechanically prepare and vacuum the substrate
2. Prime with Rayson PrimeBond E20 (1–2 coats)
3. Apply 2 coats of Rayson FloorGuard R50

Slip-resistant broadcast system

1. Prime with Rayson PrimeBond E20
2. Apply Rayson FloorGuard R50 and broadcast graded aggregate to refusal
3. Seal with a further coat of Rayson FloorGuard R50

9. LIMITATIONS

- Minimum substrate temperature 5 °C; mix and cure between +10 °C and +35 °C
- Substrate moisture content must not exceed 5%
- 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
- Requires a Rayson epoxy primer — not a self-priming system
- Not for exterior UV-exposed surfaces — epoxy yellows and chalks outdoors

10. HEALTH & SAFETY

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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://rayson.sparcoasia.com/products/floorguard-r50/>