

Document	RY-TDS-104
Revision	Rev. 1.0
Issue date	July 2026
Status	Issued

Rayson PrimeBond W10

Rayson PrimeBond · Primers & bonding coats

1. PRODUCT DESCRIPTION

Rayson PrimeBond W10 is a one-component, water-based acrylic primer, sealer and bonding agent for smooth concrete and mineral substrates, applied ahead of Rayson UraForce water-based topcoats.

PrimeBond W10 is the low-odour entry point to Rayson floor systems. Supplied ready to use in a single pack, it needs no weighing or ratio mixing — stir for two minutes and apply by brush or roller. It seals smooth concrete and mineral substrates and provides the bond for Rayson water-based urethane topcoats.

2. RECOMMENDED USES

- Priming and bonding on smooth concrete and mineral substrates
- Base coat for Rayson UraForce WB52 water-based urethane systems
- Receiving broadcast aggregate for anti-slip system build-ups

4. KEY PROPERTIES

- Low VOC and low odour — suited to occupied buildings
- Single component, ready to use — no mix-ratio errors on site
- Fast surface dry keeps overnight programmes moving
- Accepts broadcast aggregate for anti-slip systems
- Low odour

3. SUITABLE SUBSTRATES

- Smooth concrete (minimum 28 days old, moisture content below 5%)
- Mineral substrates, mechanically prepared and vacuumed

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	New concrete should be at least 28 days old with moisture content below 5%. Remove laitance and loose material; mechanically prepare damaged concrete to expose aggregate. On existing concrete, prefer mechanical preparation followed by industrial vacuuming; degrease oil and grease. The substrate is sufficiently dry when surface relative humidity is 75% or lower.
Mixing / dilution	One pre-weighed component; stir well for 2 minutes with a mixing paddle before use
Application method	Short-bristled brush, Roller
Coverage	5–10 m ² per litre depending on substrate condition
Application conditions	Minimum substrate temperature 5 °C; minimum mixing temperature 10 °C; minimum curing temperature 5 °C; keep floor dew point within 3 °C of atmospheric temperature.
Drying & curing	Surface dry approximately 1 hour at 28 °C

Recoat interval	Available from the Rayson technical team on request.
Film / thickness	Penetrating primer; consumption governs film.
Pack sizes	20 L plastic pail
Storage	Store under cover in dry conditions, protected from temperature extremes.
Shelf life	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

Low-odour floor system for occupied buildings

1. Prime with Rayson PrimeBond W10
2. Apply minimum 2 coats of Rayson UraForce WB52 water-based urethane topcoat

Anti-slip walkway system

1. Prime with Rayson PrimeBond W10 and broadcast fine aggregate into the wet film
2. Sweep off excess after drying and seal with Rayson UraForce WB52

9. LIMITATIONS

- Minimum substrate temperature 5 °C; minimum mixing temperature 10 °C; minimum curing temperature 5 °C
- New concrete must be at least 28 days old with moisture content below 5%
- Performance data supported by laboratory testing
- Not a wearing surface — must be overcoated with a compatible topcoat

10. HEALTH & SAFETY

Low-odour water-based product. Wear gloves and eye protection; ensure reasonable ventilation. 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

Singapore
Tel / WhatsApp: +65 9821 9129
support@raysonpaint.com.sg
Product page:
<https://raysonpaint.sg/products/primebond-w10/>