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Rayson UraForce HY15

Rayson UraForce · Polyurethane finishes

1. PRODUCT DESCRIPTION

Rayson UraForce HY15 is a single-component, water-based hybrid urethane — a self-crosslinking acrylic-copolymer-enhanced polyurethane — that roller-coats concrete and mineral surfaces with a fast-drying, stain-resistant, anti-slip finish.

UraForce HY15 packs urethane performance into a one-can product. The self-crosslinking acrylic-copolymer-enhanced polyurethane needs no hardener or mix ratio — open, stir and roll — which removes the most common site errors and suits maintenance teams as well as applicators.

2. RECOMMENDED USES

- Coloured coating over acrylic polymer cementitious coatings (APCC)
- Grey concrete walkways and commercial floors
- Hard surfaces such as stone and limestone
- Pavers, playgrounds and basketball courts

4. KEY PROPERTIES

- Single component — no mixing errors, minimal wastage
- Fast-drying: overcoat in 1–3 hours, light traffic in 4–6 hours at 25 °C
- Stain-resistant, easy-to-clean, anti-slip finish
- Non-yellowing, interior or exterior use
- Abrasion resistance
- Anti-slip
- Fast return to service
- UV stability

3. SUITABLE SUBSTRATES

- Mineral substrates and grey concrete
- Stone and limestone
- Pavers
- Acrylic polymer cementitious coatings

5. SYSTEM ROLE

Finish.

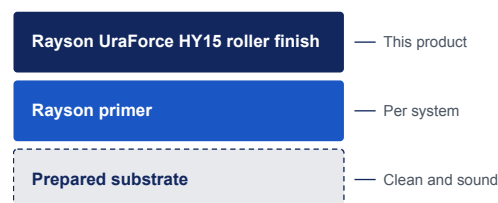


Figure 1 — Typical system build-up (top to bottom). Layer thicknesses are system-dependent; confirm the specification for your project.

6. TECHNICAL DATA

Surface preparation	Surface must be dry and clean — free of poorly adhered old coatings, loose particles, dust, grease, oil, wax and biological growth. Fill and level defective or cracked areas with a suitable filler, allow to dry, sand level and remove dust before coating.
Mixing / dilution	Single component, ready to use; pot life stated as under 4 hours once opened and in use
Application method	Brush, Roller
Coverage	Available from the Rayson technical team on request.
Application conditions	Ambient and surface temperatures should be at least 5 °C above the dew point.
Drying & curing	Overcoat in 1–3 hours at 25 °C (substrate dependent); open to light traffic after 4–6 hours
Recoat interval	Approximately 1–3 hours at 25 °C, subject to substrate conditions.
Film / thickness	Recommended film in the order of 130–150 µm per coat.

Pack sizes	24 kg plastic pail
Storage	Store in a cool, dry area protected from heat and high humidity.
Shelf life	Approximately 6–12 months unopened.

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

Fast-return walkway finish

1. Prepare, clean and make good the surface
2. Apply minimum 2 coats of Rayson UraForce HY15, overcoating within the recoat window

Anti-slip external ramp

1. Prime and texture with Rayson GripSafe AP12 anti-slip primer filler
2. Finish with Rayson UraForce HY15 in the selected colour

9. LIMITATIONS

- Ambient and surface temperatures must be at least 5 °C above the dew point
- Recommended wet film thickness approximately 130–150 microns per coat
- A thin-film finish, not a levelling or heavy-duty build product
- Shelf life shorter than two-pack products — rotate stock

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.

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Product page:
<https://raysonpaint.sg/products/uraforce-hy15/>