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Rayson SealForce RC40

Rayson SealForce · Polyurea waterproofing membranes

1. PRODUCT DESCRIPTION

Rayson SealForce RC40 is a two-component, cold-applied aliphatic polyurea waterproofing membrane for exposed roofs — roller-, brush- or spray-applied, UV-stable and walkable, with certified cool-roof reflectance.

SealForce RC40 is Rayson's cold-applied roof waterproofing membrane: a two-component, aliphatic (polyaspartic) polyurea that brushes, rolls or sprays onto a primed roof and cures to a seamless elastic film. Because the polymer is fully aliphatic, it holds its colour and gloss under direct sun where ordinary aromatic membranes darken.

2. RECOMMENDED USES

- Waterproofing exposed concrete, cement-tile and screed roofs
- Cool-roof coating where solar reflectance is required
- Rooftops subject to prolonged ponding water
- Recoating and protecting sound existing waterproofing membranes
- Overcoating bitumen, PVC/TPO single-ply membranes and PU-foam insulation
- Waterproofing light metal roofs

4. KEY PROPERTIES

- Aliphatic polyurea — outstanding UV colour and gloss stability
- Certified cool-roof reflectance in white (high SRI)
- Effectively zero water uptake; excellent crack-bridging
- Stays elastic from -35 °C to +80 °C; walkable
- Roller, brush or airless spray — no hot-spray rig required
- UV stability
- Waterproofing
- Crack-bridging

3. SUITABLE SUBSTRATES

- Exposed roofs of concrete, cement tiles or cementitious screed
- Metal roofs and surfaces (with the appropriate primer)
- Over sound bitumen membranes, PVC/TPO single-ply and old liquid membranes
- Over PU-foam insulation
- Substrate moisture below 4%, relative humidity below 85%

5. SYSTEM ROLE

Standalone coating.



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 stable, clean, dry and free of dust, oil, grease, loose material and rising moisture. Remove poorly adhering coatings and treat irregularities so the surface is flat, continuous and correctly falled. Prime with the Rayson primer matched to the roof material before waterproofing.
Mixing / dilution	Two parts mixed 13:8 (A:B) by weight; stir Part A ~1 minute, then combine and low-speed mix ~3 minutes until homogeneous; apply undiluted in at least two layers
Application method	Roller, Brush, Airless spray

Coverage	1–1.2 kg/m ² total over two layers on cementitious surfaces
Application conditions	Substrate moisture below 4%; relative humidity below 85%; ambient and substrate temperature +5 °C to +35 °C; substrate at least 3 °C above dew point.
Drying & curing	Touch/recoat ~18 h at 23 °C; resists early rain after 3 h; full hardening ~7 days
Recoat interval	Recoat about 18 hours after the previous layer at 23 °C; times lengthen in cool, humid weather and shorten in heat.
Film / thickness	Built in at least two layers; keep each unreinforced layer below 1 kg/m ² to avoid solvent entrapment.
Pack sizes	Sets (A+B) of 21 kg and 5.25 kg
Storage	Store sealed and upright, protected from frost, humidity and sunlight. Component A keeps ~2 years, Component B ~1 year.
Shelf life	Component A approximately 2 years; Component B approximately 1 year, in sealed original packaging.

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

Exposed roof waterproofing (cementitious)

1. Prepare and prime the roof with the appropriate Rayson primer
2. Reinforce corners, drains and cracks with polyester fabric bedded in SealForce RC40
3. Apply the SealForce RC40 base coat
4. Apply the SealForce RC40 top coat in the opposite direction

9. LIMITATIONS

- Apply only on a primed substrate — primer depends on the roof material
- Substrate moisture below 4%, RH below 85%, air/substrate temperature +5 °C to +35 °C
- Substrate temperature must stay at least 3 °C above dew point
- Do not apply if rain is expected during application or cure
- Keep each unreinforced layer below 1 kg/m² to avoid solvent entrapment
- Component B shelf life is shorter than Component A — check dates before use

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/sealforce-rc40/>