WATERPROOFING MEMBRANES

SealForce PA520-S

TWO-COMPONENT COLD-APPLIED ALIPHATIC POLYUREA WATERPROOFING MEMBRANE

Rayson SealForce PA520-S 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.

KEY PROPERTIES

- Aliphatic polyurea — UV colour and gloss stability
- Certified cool-roof reflectance in white
- Effectively zero water uptake; excellent crack-bridging
- Elastic from -35 °C to +80 °C; walkable
- Roller, brush or airless spray — no hot-spray rig



Illustration — two-part set, Part A + Part B. Pack sizes: see this data sheet.

MIX RATIO	COVERAGE	RECOAT	FULL CURE	PACK SIZE
13:8	1–1.2 kg/m²	~18 h	~7 days	21 or 5.25 kg
A:B by weight	two layers	at 23 °C	temperature dependent	A+B sets

01 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 sound existing waterproofing membranes
- Overcoating bitumen, PVC/TPO single-ply and PU-foam insulation
- Waterproofing light metal roofs

02 SUITABLE SUBSTRATES

- Exposed concrete, cement tiles or cementitious screed
- Metal roofs with appropriate primer
- Sound bitumen membranes, PVC/TPO single-ply and old liquid membranes
- PU-foam insulation; substrate moisture below 4%, RH below 85%

03 SYSTEM ROLE

RAYSON SEALFORCE PA520-S TOP COAT	This product
RAYSON SEALFORCE PA520-S BASE COAT	Fabric-reinforced details
RAYSON PRIMER	Matched to roof material
PREPARED ROOF SUBSTRATE	Moisture < 4%, RH < 85%

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

Technical data & application controls

Control the substrate, mix, application conditions and cure before handover.

SOURCE TECHNICAL DATA

SURFACE PREPARATION	Stable, clean, dry and free of dust, oil, grease, loose material and rising moisture. Prime with primer matched to roof material.
MIXING / DILUTION	13:8 A:B by weight; stir A ~1 minute, combine and low-speed mix ~3 minutes; apply undiluted in at least two layers.
APPLICATION METHOD	Roller, brush, airless spray.
COVERAGE	1–1.2 kg/m² total over two layers on cementitious surfaces.
APPLICATION CONDITIONS	Moisture below 4%, RH below 85%, temperature +5 °C to +35 °C, substrate at least 3 °C above dew point.

CONDITIONS, PACKAGING & STORAGE

DRYING & CURING	Touch/recoat ~18 h at 23 °C; early rain resistance after 3 h; full hardening ~7 days.
RECOAT INTERVAL	About 18 hours at 23 °C.
FILM / THICKNESS	At least two layers; each unreinforced layer below 1 kg/m².
PACK SIZES	Sets (A+B) of 21 kg and 5.25 kg.
STORAGE	Sealed and upright; protect from frost, humidity and sunlight.
SHELF LIFE	Component A ~2 years; Component B ~1 year.

04 APPLICATION WORKFLOW

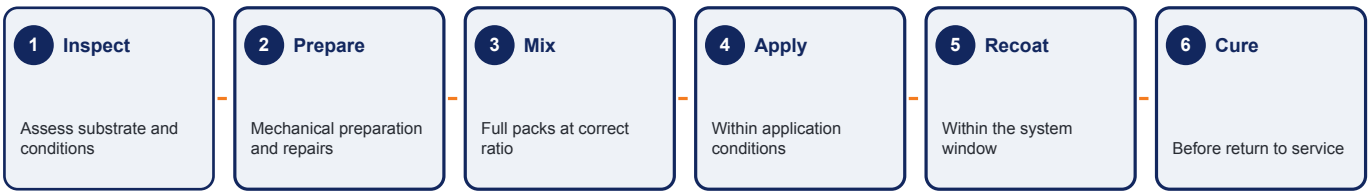

Figure 2 — Application workflow. Each stage is a hold point: confirm the previous stage is complete and within specification before proceeding.

Specify, apply and verify the system

05 RECOMMENDED SYSTEM

Exposed roof waterproofing

1. Prepare and prime roof with appropriate Rayson primer
2. Reinforce corners, drains and cracks with polyester fabric bedded in PA520-S
3. Apply PA520-S base coat
4. Apply PA520-S top coat in opposite direction

06 LIMITATIONS

- Apply only on a primed substrate
- Moisture below 4%, RH below 85%, temperature +5 °C to +35 °C
- Substrate at least 3 °C above dew point
- Do not apply if rain is expected
- Keep each unreinforced layer below 1 kg/m²
- Component B shelf life is shorter

07 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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