

POLYURETHANE FINISHES

UraForce SB65

SOLVENT-BASED ALIPHATIC POLYURETHANE CLEAR TOPCOAT

Rayson UraForce SB65 is a two-component, solvent-based aliphatic polyurethane clear topcoat with excellent abrasion resistance, non-yellowing behaviour and outstanding weather durability for concrete, metal and stone.

UraForce SB65 is the clear aliphatic polyurethane in the Rayson range, available in gloss, satin and matt. It seals and dustproofs concrete and hard mineral surfaces with a film that will not yellow, offering outstanding weather resistance and durability alongside excellent abrasion resistance and low dirt pick-up.

KEY PROPERTIES

- Non-yellowing aliphatic PU with outstanding weather resistance
- Excellent abrasion resistance with low dirt pick-up
- Clear gloss, satin or matt finishes (gloss 85 at 60°)
- Long pot life (~2 hours) for controlled application
- UV stability
- Abrasion resistance
- Chemical resistance
- Hygiene / washdown



MIX RATIO

4:1

by volume

COVERAGE

On request

technical team

POT LIFE

~2 hours

application control

SURFACE DRY

6 hours

at 25 °C

PACK SIZE

5 Lt set

4 + 1 Lt

02 RECOMMENDED USES

- UV-resistant clear coating for concrete and metal
- Versatile topcoat finishes on hard surfaces such as stone and limestone
- Hygienic coatings for walls and floors
- Non-yellowing, high-abrasion-resistance protective finishes

03 SUITABLE SUBSTRATES

- Mechanically prepared concrete (minimum 28 days old, moisture content below 5%)
- Metal (prepared)
- Stone and limestone
- Walls and floors

05 SYSTEM ROLE

RAYSON URAFORCE SB65 FINISH

RAYSON PRIMER

PREPARED CONCRETE SUBSTRATE

— This product, Part A 4 Lt; Part B 1 Lt

— Per system

— RH ≤ 75%

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	New concrete should be at least 28 days old with moisture below 5%. Remove laitance and loose material; mechanically prepare damaged concrete to exposed aggregate. On existing concrete, prefer mechanical preparation followed by industrial vacuuming and degrease with industrial detergent; the substrate is sufficiently dry at surface relative humidity of 75% or lower.
MIXING / DILUTION	Two pre-weighed parts, mix ratio 4:1 by volume; stir parts separately, combine and mix with a slow-speed drill and paddle for 1–2 minutes; pot life approximately 2 hours
APPLICATION METHOD	Short-bristled brush, Roller
COVERAGE	Available from the Rayson technical team on request.
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.

CONDITIONS, PACKAGING & STORAGE

DRYING & CURING	Surface dry 6 hours at 25 °C
RECOAT INTERVAL	Available from the Rayson technical team on request.
FILM / THICKNESS	Applied at approximately 100 µm wet film per coat.
PACK SIZES	Part A 4 Lt can + Part B 1 Lt can
STORAGE	Store under cover in dry conditions, protected from temperature extremes.
SHELF LIFE	Approximately 12 months for the base; 6–12 months for the hardener, unopened.

07 APPLICATION WORKFLOW

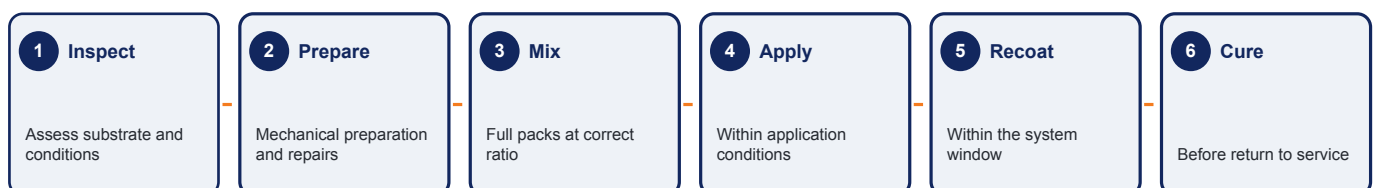


Figure 2 — Application workflow. Each stage is a hold point: confirm the previous stage is complete and within specification before proceeding.

Specify, apply and verify the system

08 RECOMMENDED SYSTEM

Clear protective finish

- 1 Prepare the substrate mechanically and prime where required with Rayson PrimeBond S30
- 2 Apply minimum 2 coats of Rayson UraForce SB65, stripe-coating edges by brush

09 LIMITATIONS

- Minimum substrate temperature 5 °C; minimum mixing temperature 10 °C; minimum curing temperature 5 °C
- Mixed material must be used within its pot life; cures faster in hot weather and in large batches
- Solvent-based — provide adequate ventilation; not for occupied areas without ventilation control
- Thin-film clear coat — substrate defects and colour show through

10 HEALTH & SAFETY

Solvent-based product — flammable. Ensure good ventilation, keep away from ignition sources, and wear gloves, eye and respiratory protection. 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

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