RAYSON
HIGH PERFORMANCE COATINGS

TECHNICAL DATA SHEET

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1. PRODUCT DESCRIPTION

Rayson HydroShield WE40 is a two-component, water-based epoxy used as a self-priming primer-and-topcoat system on concrete, screed, asphalt and metal — including damp surfaces.

HydroShield WE40 is a water-dilutable two-component epoxy that works as its own primer and topcoat — one product, applied in successive coats, takes the floor from prepared concrete to a finished coloured seal coat. That self-priming simplicity cuts product count and programme risk on straightforward floors.

2. RECOMMENDED USES

- Coloured seal coats on cementitious screeds
- Warehouse flooring and production floors in normal to medium-heavy exposure
- Car park deck coatings
- Self-priming primer-and-topcoat systems on new and existing concrete

3. SUITABLE SUBSTRATES

- New and existing concrete (minimum 28 days old, moisture content below 5%)
- Cementitious screeds, including highly absorbent substrates
- Asphalt
- Metal (mechanically prepared)
- Dry or damp surfaces (no standing water)

4. KEY PROPERTIES

- Self-priming — one product serves as primer and topcoat
- Water-based and suitable for unventilated areas
- Applies to dry or damp surfaces
- Good hiding power with high mechanical properties and anti-corrosive resistance
- low odour

5. SYSTEM ROLE

standalone.

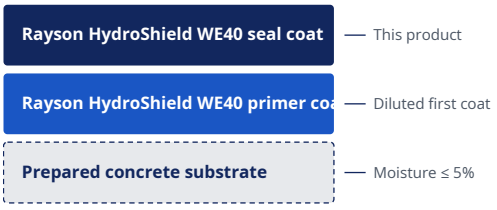

Figure 1 — Typical system build-up (top to bottom). Layer thicknesses are system-dependent; confirm the specification for your project.

6. TECHNICAL DATA

Surface preparation	[object Object]
Mixing / dilution	[object Object]
Application method	Roller, Brush, Airless spray
Coverage	[object Object]
Application conditions	[object Object]
Drying & curing	[object Object]
Recoat interval	[object Object]
Film / thickness	[object Object]

Pack sizes	[object Object]
Storage	[object Object]
Shelf life	[object Object]

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

Self-priming seal coat system

1. Mechanically prepare and vacuum the substrate
2. Apply a first coat of Rayson HydroShield WE40 as the primer
3. Apply a second coat of Rayson HydroShield WE40 as the coloured topcoat

UV-stable variant for exposed areas

1. Apply Rayson HydroShield WE40 as primer and body coat
2. Finish exposed or daylight-flooded zones with Rayson UraForce WB58 for colour stability

9. LIMITATIONS

- Minimum substrate temperature 5 °C; curing between +10 °C and +35 °C; concrete moisture content maximum 5%
- Mixed material must be used within its pot life; cures faster in hot weather and in large batches
- A thin-film seal coat — not intended for heavy-duty impact or thick-build duties
- Epoxy chemistry — will yellow and chalk under exterior UV exposure

10. HEALTH & SAFETY

[object Object]

RAYSON HIGH PERFORMANCE COATINGS

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Product page:
https://rayson.sparcoasia.com/products/hydroshield-we40/