CERAMIC-HYBRID FLOOR COATINGS

PrimeBond CH140

SINGLE-PACK PRIMER FOR SOUND CONCRETE

Rayson PrimeBond CH140 is a single-pack, ready-to-use primer that seals prepared, sound concrete and anchors the ceramic-hybrid (CH) colour and clear coats to the floor.

CH140 is applied as supplied — no mixing, no dilution — by roller or brush at 0.10–0.15 kg/m². It wets out the prepared surface, binds residual fines and leaves a uniform, sealed base for the FloorGuard CH340-W colour coat. Cracks, pinholes and damaged areas are repaired after the primer has dried.

KEY PROPERTIES

- Ready to use — no mixing and no dilution
- Seals and binds prepared concrete in a single coat
- Uniform, sealed base for FloorGuard CH340-W colour coat
- Overcoat after about 2 hours, once fully dry
- Roller or brush applied



PACK TYPE	COVERAGE	DILUTION	OVERCOAT	SUBSTRATE
1-pack	0.10–0.15 kg/m²	None	2 h	< 8%
ready to use	one coat	apply as supplied	minimum, when fully dry	moisture content

01 RECOMMENDED USES

- Priming sound, prepared concrete under FloorGuard CH340-W colour systems
- Car park, warehouse and factory floors
- Offices, plant rooms and back-of-house floors
- Sealing prepared concrete before crack and pinhole repairs

02 SUITABLE SUBSTRATES

- Sound, fully cured concrete and cement screed after mechanical preparation; moisture content below 8%
- For weak, dusty or porous concrete use PrimeBond CH145-S
- Other substrates: confirm suitability with the technical team

03 SYSTEM ROLE

RAYSON TOPSHIELD CH465-S CLEAR TOP COAT	1 coat · 0.10 kg/m²
RAYSON FLOORGUARD CH340-W COLOUR COAT	2 coats · 0.08–0.12 kg/m² each
RAYSON PRIMEBOND CH140 PRIMER	This product · 0.10–0.15 kg/m²
PREPARED CONCRETE SUBSTRATE	Ground and vacuumed

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	Concrete must be sound, dry and clean, with moisture content below 8%. Remove laitance, dust, oil, old coatings and efflorescence by diamond grinding, sanding or blasting, then vacuum thoroughly. Preparation decides the result — do not coat over dust or contamination.
MIXING / DILUTION	Single pack. Stir before use. Do not dilute with water or thinner.
APPLICATION METHOD	Roller or brush. Use a lint-free roller and remove loose fibres before use.
COVERAGE	0.10–0.15 kg/m² in one coat, depending on substrate porosity.
APPLICATION CONDITIONS	Apply to a dry substrate at least 3 °C above dew point. Protect from rain, water and condensation until dry. Ventilate enclosed areas.

CONDITIONS, PACKAGING & STORAGE

DRYING & CURING	Allow to dry fully — at least 2 hours in normal conditions — before repairs or the next coat. Drying is slower in cool or humid conditions.
RECOAT INTERVAL	Overcoat with FloorGuard CH340-W once fully dry (minimum 2 hours). Confirm the maximum overcoat window with the Rayson technical team.
FILM / THICKNESS	Penetrating primer; consumption governs film.
PACK SIZES	Single pack. Confirm pack size with the Rayson technical team.
STORAGE	Store sealed in original packaging in a cool, dry, shaded place at 5–30 °C. Keep away from heat and direct sunlight.
SHELF LIFE	See batch label; use unopened material within the stated period.

04 APPLICATION WORKFLOW

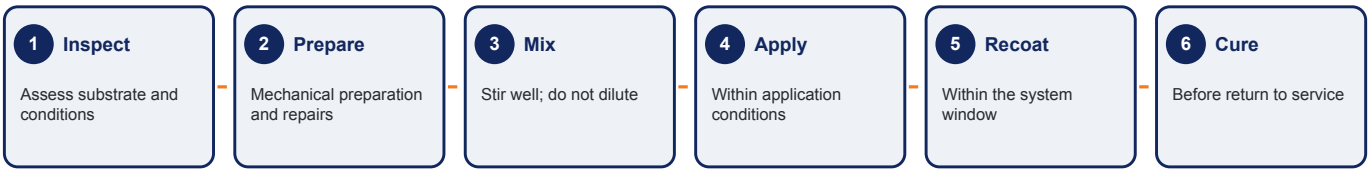


Figure 2 — Application workflow. Each stage is a hold point: confirm the previous stage is complete and within specification before proceeding.

Specify, apply and verify the system

05 RECOMMENDED SYSTEM

Coloured floor system — sound concrete

1. Prepare and vacuum the concrete, then prime with one coat of Rayson PrimeBond CH140
2. Once dry, repair cracks and pinholes with a Rayson epoxy repair compound
3. Apply two coats of Rayson FloorGuard CH340-W colour coat, at least 2 hours apart
4. After 24 hours, seal with one coat of Rayson TopShield CH465-S clear top coat

Anti-slip coloured floor

1. Prime with Rayson PrimeBond CH140 and repair as for the standard system
2. Mix approved anti-slip aggregate into Rayson FloorGuard CH340-W at 1–5% by weight and apply two coats
3. After 24 hours, seal with Rayson TopShield CH465-S clear top coat

06 LIMITATIONS

- Substrate must be sound, dry (moisture content below 8%) and free of dust and contamination
- Do not dilute; do not apply over damp concrete, standing water or condensation
- Not a wearing surface — must be overcoated with the ceramic-hybrid (CH) system
- For weak, dusty or highly porous concrete use PrimeBond CH145-S

07 HEALTH & SAFETY

Wear gloves and eye protection and ensure good ventilation. Avoid skin and eye contact. Keep containers closed when not in use. 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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