CERAMIC-HYBRID FLOOR COATINGS

FloorGuard CH340-W

SINGLE-PACK, WATER-DILUTABLE COLOUR COAT

Rayson FloorGuard CH340-W is a single-pack, water-dilutable colour coat applied in two thin coats over a ceramic-hybrid (CH) primer and sealed with TopShield CH465-S clear top coat.

CH340-W gives the ceramic-hybrid (CH) system its colour and hiding. It is thinned with up to 5% clean water and applied by roller, brush or spray, and it can carry anti-slip aggregate where a textured finish is needed. The TopShield CH465-S clear top coat then provides the hard, stain-resistant wearing surface.

KEY PROPERTIES

- Single pack — thin with 0–5% clean water
- Two thin coats give uniform colour and hiding
- Second coat after 2 hours
- Accepts anti-slip aggregate at 1–5% by weight
- Roller, brush or spray applied



PACK TYPE	COVERAGE	DILUTION	RECOAT	PACK SIZE
1-pack	0.08–0.12 kg/m²	0–5%	2 h	15 kg
water-dilutable	per coat, two coats	clean water	minimum between coats	pail

01 RECOMMENDED USES

- Coloured floors in car parks, warehouses and factories
- Coloured floors in offices, plant rooms and back-of-house areas
- Anti-slip coloured finishes with approved aggregate
- Colour coat beneath TopShield CH465-S clear top coat

02 SUITABLE SUBSTRATES

- Concrete primed with PrimeBond CH140 (sound concrete) or PrimeBond CH145-S (weak or aged concrete)
- Primer must be fully dry — at least 2 hours
- Not for application directly onto unprimed concrete

03 SYSTEM ROLE

RAYSON TOPSHIELD CH465-S CLEAR TOP COAT	1 coat · 0.10 kg/m², after 24 hours
RAYSON FLOORGUARD CH340-W COLOUR COAT	This product · 2 coats
RAYSON PRIMEBOND CH140 / CH145-S PRIMER	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	Apply only over PrimeBond CH140 or CH145-S primer that is fully dry (at least 2 hours). Complete crack and pinhole repairs first. The primed surface must be clean, dry and free of dust.
MIXING / DILUTION	Single pack. Shake or stir well, add 0–5% clean water (about 0.5 litre per 15 kg pail) and mix with a hand mixer or by hand until uniform. For anti-slip finishes, mix in approved aggregate at 1–5% by weight (about 0.5 kg per 15 kg pail).
APPLICATION METHOD	Roller, brush or spray.
COVERAGE	0.08–0.12 kg/m² per coat in two coats — typically 0.10 kg/m² for the first coat and 0.08 kg/m² for the second.
APPLICATION CONDITIONS	Apply to a dry, primed surface at least 3 °C above dew point. Protect from rain, water and condensation until dry. Ventilate enclosed areas.

CONDITIONS, PACKAGING & STORAGE

DRYING & CURING	Allow at least 2 hours between coats. Allow 24 hours at 20 °C to dry fully before the clear top coat.
RECOAT INTERVAL	Second coat after a minimum of 2 hours. TopShield CH465-S after 24 hours at 20 °C.
FILM / THICKNESS	Two thin coats — do not apply one heavy coat.
PACK SIZES	15 kg pail. Confirm available colours 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

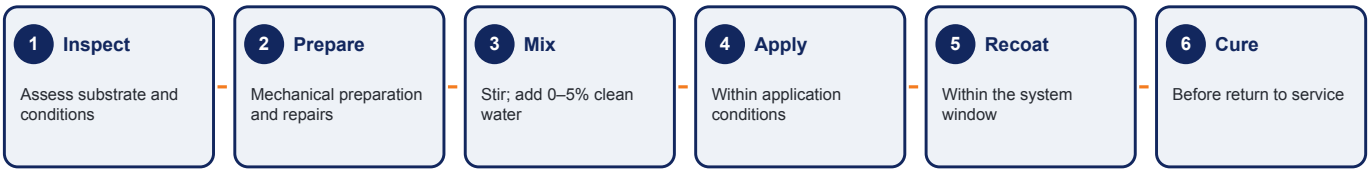


Figure 2 — Application workflow. Each stage is a hold point: confirm the previous stage is complete and within specification before proceeding.

Specify, apply and verify the system

05 RECOMMENDED SYSTEM

Coloured floor system

1. Prime prepared concrete with Rayson PrimeBond CH140 (sound concrete) or CH145-S (weak concrete) and allow to dry
2. Apply the first coat of Rayson FloorGuard CH340-W at about 0.10 kg/m²
3. After at least 2 hours, apply the second coat at about 0.08 kg/m²
4. After 24 hours, seal with Rayson TopShield CH465-S clear top coat at 0.10 kg/m²

Anti-slip coloured floor

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

06 LIMITATIONS

- Apply only over fully dry ceramic-hybrid (CH) primer — not directly onto bare concrete
- Do not add more than 5% water
- Not a wearing surface on its own — always seal with TopShield CH465-S clear top coat
- Allow 24 hours at 20 °C before the clear top coat; longer in cool or humid conditions
- Anti-slip aggregate changes coverage and texture — confirm on a test area

07 HEALTH & SAFETY

Wear gloves and eye protection and ensure good ventilation, particularly when spraying. 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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