

CHEMFIT FLOOR 264

2-Part Epoxy Roller and Seal Coat – For Roller Coats for Concrete, Seal Coat for Broadcast Systems in Car Parks, Maintenance Hangars & Food Industry

PRODUCT DESCRIPTION

ChemFit Floor 264 is a two-part, coloured epoxy resin based roller and seal coat. This high-performance coating is designed for roller application onto concrete and cementitious screeds and as a seal coat over broadcast flooring systems. It cures to form a liquid-proof, gloss finish with good mechanical and chemical resistance. The system conforms to ISO 14644-1 Class 4 for cleanroom applications, ensuring very low particle emission.

PRIMARY APPLICATIONS

ChemFit Floor 264 is recommended for use in conditions such as:

- **Roller Coat:** For concrete and cement screeds with normal to medium heavy wear in storage halls, assembly areas, maintenance workshops, garages, and loading ramps.
- **Seal Coat:** For broadcast systems in multi-storey and underground car parks, maintenance hangars, wet process areas, and the beverage and food industry

KEY FEATURES AND BENEFITS

- **Two-part epoxy** – High mechanical strength and chemical resistance.
- **ISO 14644-1 Class 4** – Suitable for high-specification cleanrooms; low particle emission.
- **Easy application** – Can be applied by short-pile roller or squeegee.
- **Liquid-proof and dust-proof** – Provides a seamless, impervious barrier.
- **Gloss finish** – Attractive, easy-to-clean surface.
- **Slip resistant (optional)** – Broadcast with anti-slip aggregate for textured finish.
- **Good chemical resistance** – Resists oils, greases, and industrial chemicals

MECHANICAL PROPERTIES

Property	Value	Test Method
Shore D Hardness	> 75	Shore D Hardness
Adhesion to Concrete	> 1.5 N/mm ² (substrate failure typical)	Adhesion to Concrete
Abrasion Resistance	Good for medium-heavy traffic	Abrasion Resistance
Chemical Resistance	Good – oils, greases, fuels, mild chemicals	Chemical Resistance

PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Part A: Pigmented liquid; Part B: Clear/Amber liquid
Colour	Range of RAL colours available (e.g. RAL 7032, RAL 7037, RAL 9010)
Basis	Two-part, solvent-free epoxy resin
Mix Ratio (by weight)	Refer to product label (typically 4:1 or similar)
Density (mixed resin)	~1.4 – 1.5 kg/L
Solids Content	~100% (by weight and volume)
Pot Life (at +20°C)	~20 – 30 minutes
Touch Dry (at +20°C)	~8 – 12 hours
Recurable Interval	24 – 48 hours
Full Cure	7 days
Application Temperature	+10°C to +30°C
Substrate Temperature	Must be ≥3°C above dew point
Relative Humidity	Max. 80%
Substrate Moisture	< 4% (no rising moisture)

PACKAGING AND STORAGE

Packaging:

- 30 kg unit (Part A + Part B ready-to-mix set)

Storage:

- Store in original sealed containers at +10°C to +25°C
- Protect from direct sunlight, moisture, and freezing
- Store in dry conditions

Shelf life: 12 months from date of manufacture when stored properly

DOSAGE AND COVERAGE RATE

Application Type	Mix Ratio	Consumption (approx.)	Coverage per 30 kg unit
Roller coat (neat)	As supplied	0.20 – 0.35 kg/m ²	85 – 150 m ²
Seal coat (neat)	As supplied	0.35 – 0.50 kg/m ²	60 – 85 m ²
Textured finish	Add 1.5-3% Extender T	0.55 – 0.90 kg/m ²	33 – 54 m ²

APPLICATION GUIDELINES

Surface Preparation:

- Substrate must be sound, clean, dry, and free from dust, oil, grease, laitance, curing compounds, and loose particles.
- Mechanically abrade (shot blasting or grinding) to achieve open texture (CSP 2-3).
- Substrate moisture content must be < 4% with no rising moisture.
- Fill blowholes and repair damaged areas with suitable filler.

Priming:

- Porous substrates require a compatible epoxy primer (e.g., ChemFit EpoxyPrime 1400 or ChemFit Floor 155WN).
- Apply primer at approx. 0.35-0.50 kg/m² by roller and back-roll crosswise.

Mixing:

- Thoroughly pre-mix Part A before combining.
- Add Part B to Part A according to label ratio.
- Mix with a low-speed drill (300-400 rpm) for 2-3 minutes until uniform.
- Pour into another container and mix again for 1 minute to ensure thorough blending.
- Use within pot life (~25 minutes at +20°C).

Application:

- **Roller Coat:** Pour material onto prepared substrate; spread using short-pile roller or squeegee; back-roll crosswise for uniform coverage.
- **Seal Coat:** Apply as above; for broadcast systems, apply seal coat over vacuumed broadcast aggregate at 0.35-0.50 kg/m².
- **Textured Finish:** Add 1.5-3% Extender T to the mixed material before application; apply by roller.

Curing:

Temperature	Recoat Minimum	Recoat Maximum	Pot Life
+10°C	24 hours	48 hours	~40 min
+20°C	12-16 hours	24-48 hours	~25 min
+30°C	8 hours	24 hours	~15 min

- Light foot traffic: ~18-24 hours at +20°C.
- Full chemical resistance: 7 days.
- Do not apply below +10°C or if relative humidity exceeds 80%.
- Do not apply if substrate temperature is below dew point (+3°C margin).

HEALTH AND SAFETY

Epoxy resins may cause skin and eye sensitization. If eye contact occurs: rinse with water for 15-20 minutes, seek medical attention. Skin contact: wash with soap and water. If swallowed: do not induce vomiting; rinse mouth, drink water, seek medical aid. Use nitrile gloves, safety glasses, protective clothing. Ensure ventilation – use respiratory protection if ventilation is poor. Refer to SDS.

CLEANG OF TOOLS

Clean all brushes, rollers, mixing equipment, and spillages with xylene, acetone, or epoxy thinner immediately after use before material cures. Dried material requires mechanical removal.

APPROVALS AND STANDARDS

ChemFit Floor 264 complies with the following standards:

- **ISO 14644-1 Class 4** – Air cleanliness classification for cleanrooms (low particle emission).
- **EN 1504-2** – Surface protection systems for concrete (Coating).
- **EN 13813** – Screed material and floor coatings.
- **DIN 53 505** – Shore hardness testing.
- **ISO 4624 / EN 1542** – Pull-off adhesion strength testing.
- **ASTM D4060** – Abrasion resistance testing.
- **ISO 9001** – Quality management system certified.
- Good Manufacturing Practice (GMP) Class A – Suitable for pharmaceutical and food applications.
- **Low VOC** – Low emission.
- 2-part epoxy roller and seal coat; conforms to ISO 14644-1 Class 4.
- Suitable for roller coats for concrete and seal coat for broadcast systems in car parks, maintenance hangars, and food industry.

LEGAL NOTES

All technical data provided in this Product Data Sheet is based on laboratory testing under controlled conditions. Actual field performance may vary due to differences in substrates, application methods, site conditions, and environmental factors. ChemFit makes no warranty of merchantability or fitness for a particular purpose. Users shall conduct their own trials to validate product suitability for the intended application. ChemFit reserves the right to modify product specifications without prior notice. For the most current documentation, request the latest Product Data Sheet and Safety Data Sheet from ChemFit.

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