

CHEMFIT RC100

Epoxy Floor Coating – For Warehouses & Industrial Floors

PRODUCT DESCRIPTION

ChemFit RC100 is a high-performance, solvent-free, two-component epoxy floor coating formulated for durability in warehouses, factories, and commercial facilities. It provides a seamless, hard-wearing surface resistant to abrasion, impact, oils, and mild chemicals. The low-viscosity formulation ensures easy application by roller or squeegee, resulting in a dust-proof and easy-to-clean finish.

PRIMARY APPLICATIONS

ChemFit RC100 is recommended for use in conditions such as:

- Warehouse floors (general storage, racking aisles)
- Light to medium industrial floors
- Commercial garages and workshops
- Assembly areas and corridors
- Concrete protection against oil and chemical spillage
- Decorative and high-build floor systems (as a primer or topcoat)

KEY FEATURES AND BENEFITS

- **Low VOC / Solvent Free** – Safe for indoor use; complies with emission standards for occupied spaces.
- **High Mechanical Strength** – Withstands forklift traffic, wheeled loads, and impact.
- **Chemical Resistance** – Resists oils, hydraulic fluids, gasoline, and dilute acids/alkalis.
- **Seamless & Non-Dusting** – Hardens concrete floors and eliminates dusting.
- **Easy to Clean** – Smooth, non-porous surface resists stains and dirt.
- **Good Pot Life** – Provides adequate working time for medium-sized areas.
- **Low Coverage Rate** – 0.2 – 0.4 kg/m² typical (depending on surface porosity).

MECHANICAL PROPERTIES

Property	Value
Hardness (Shore D)	75 – 85
Tensile strength	20 – 30 MPa
Compressive strength	50 – 70 MPa
Abrasion resistance (Taber)	Low weight loss (< 100 mg)

PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Part A: Clear/Amber; Part B: Pigmented liquid
Mixed color	Custom/Standard (e.g., Gray, Red, Green, Blue)
Basis	Solvent-free epoxy resin
Density (mixed)	1.2 – 1.4 kg/L
Mix ratio	Refer to product label (typically 2:1 or 4:1 by volume)
Pot life (25°C)	20 – 30 minutes
Tack-free time	8 – 12 hours
Light foot traffic	12 – 16 hours
Full chemical cure	7 days
Application temp	+10°C to +30°C

PACKAGING AND STORAGE

Packaging: 20 kg kit (Part A + Part B).

Storage: Keep in original sealed containers at +10°C to +30°C. Protect from moisture and direct sunlight.

Shelf life: 12 – 18 months in sealed containers.

DOSAGE AND COVERAGE RATES

Coverage: 0.2 – 0.4 kg per square meter. This is a **very thin film** (approx. 150 – 300 microns).

Yield per 20 kg kit: Covers approximately **50 – 100 m²** (depending on substrate porosity).

Note: For rough or porous concrete, coverage will trend toward 0.4 kg/m². Two coats may be required for pinhole-free sealing.

APPLICATION GUIDELINES

Surface Preparation:

- Substrate must be clean, dry, and sound. Mechanically prepare via shot blasting or grinding to achieve an "open" surface texture (CSP 2-3). Do not acid etch.

Mixing:

- Pre-mix Part A; add Part B. Mix with low-speed drill (400-600 rpm) for 2-3 minutes. Avoid high-speed mixing which introduces air bubbles.

Application:

- Apply by short-nap roller or squeegee.
- For dense concrete: 0.2 – 0.3 kg/m².
- For porous concrete: 0.3 – 0.4 kg/m².
- Maintain a "wet edge" to avoid roller marks.

Curing:

- Protect from dust, moisture, and foot traffic for 12-16 hours. Full cure (chemical resistance) in 7 days.

HEALTH AND SAFETY

Epoxy resins may cause skin and eye sensitization. Use nitrile gloves, goggles, and protective clothing. Ensure adequate ventilation. If swallowed, seek medical advice. Refer to SDS.

CLEANG OF TOOLS

Clean all mixing equipment, trowels, and spillages with water immediately after use. Dried or cured material requires mechanical removal.

APPROVALS AND STANDARDS

ChemFit RC100 conforms to the following standards:

- **ASTM D4060** – Abrasion Resistance (Tabor Abrasion Test)
- **ASTM D1654** – Corrosion resistance
- **ISO 9001** – Quality Management System

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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