

# CHEMFIT RM 600

## 2-Component Repair Mortar – For Tanks, Slabs & Structural Repair

### PRODUCT DESCRIPTION

**ChemFit RM600** is a high-performance, 2-component repair mortar (resin + hardener + filler system) formulated for structural concrete repairs. The two-component system provides superior bonding, high strength, chemical resistance, and durability. Ideal for repairing tanks, slabs, and structural elements where fast curing and long-term performance are critical.

### PRIMARY APPLICATIONS

**ChemFit RM600** is recommended for use in conditions such as:

- Repair of concrete tanks (water, chemical, storage)
- Structural slab repairs (industrial floors, bridge decks)
- Columns, beams, and walls requiring structural integrity
- Crack filling and spall repair in load-bearing elements
- Marine and industrial structures

### KEY FEATURES AND BENEFITS

- **2-component** – Consistent mix ratio; high performance
- **High strength** – Suitable for structural loads
- **Chemical resistant** – Resists water, oils, dilute acids, alkalis
- **Good bond** – Excellent adhesion to concrete and steel
- **Low shrinkage** – Dimensionally stable
- **Fast cure** – Quick return to service
- **20 kg kit** – Easy handling; mix full kit

### PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Part A (liquid resin) + Part B (hardener/powder)
Color	Mixed: Gray
Pot Life (25°C)	20 – 40 minutes
Initial Cure	4 – 6 hours
Full Cure	7 days
Application Temp	+10°C to +35°C

## COMPRESSIVE AND OTHER STRENGTHS

- **6 hours:** 15 – 25 MPa (2,180 – 3,600 psi)
- **1 day:** 30 – 40 MPa (4,350 – 5,800 psi)
- **3 days:** 40 – 50 MPa (5,800 – 7,250 psi)
- **7 days:** 50 – 60 MPa (7,250 – 8,700 psi)
- **28 days:** 60 – 75 MPa (8,700 – 10,900 psi)
- **Flexural strength (28 days):** 10 – 15 MPa (1,450 – 2,180 psi)
- **Bond to concrete:** > 2.5 MPa (concrete failure)

## PACKAGING AND STORAGE

### Packaging:

- 20 kg kit (pre-weighed components)

### Storage:

- Store at +10°C to +30°C; dry; sealed
- Protect from moisture and sunlight

**Shelf life:** 12 months

## DOSAGE AND COVERAGE RATES

- **Yield per 20 kg kit:** Approx 8 – 10 liters mixed
- **Coverage (10 mm thickness):** approx 0.8 – 1.0 m<sup>2</sup> per kit
- **Coverage (20 mm thickness):** approx 0.4 – 0.5 m<sup>2</sup> per kit

## APPLICATION GUIDELINES

### Surface Prep:

- Clean, sound, dry; remove dust/oil/laitance
- Expose sound concrete; square edges
- Reinforcement: clean rust to bright metal

### Mixing:

- Mix full kit according to label ratio
- Mix with low-speed drill for 3-5 min until uniform
- Use within pot life (20-40 min @25°C)

### Application:

- Apply by trowel or spatula
- For deep repairs, apply in layers
- Do not exceed recommended thickness without consulting

### Curing:

- Cure 24 h before light load; 7 days full strength
- Protect from water/chemicals during cure
- Do not apply below +10°C or if freezing

## HEALTH AND SAFETY

Epoxy may cause skin/eye irritation. Use gloves, goggles. If contact, rinse with water. Refer SDS.

## CLEAING OF TOOLS

Clean with solvent (acetone/xylene) immediately after use.

## APPROVALS AND STANDARDS

**ChemFit RM600** conforms to the following standards:

- **EN 1504-3** – Structural repair (Class R4)
- **ASTM C881** – Type II/IV epoxy bonding systems
- Suitable for tanks, slabs, structural repair

## 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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