

# CHEMFIT REPAIRLITE 9210

Lightweight, Economical, Non-Sag Patching and Repair Mortar – For Horizontal, Vertical & Overhead Applications

## PRODUCT DESCRIPTION

**ChemFit RepairLite 9210** is a lightweight, economical, non-sag patching and repair mortar designed for easy application on horizontal, vertical, and overhead surfaces. The lightweight formulation reduces dead load and allows thicker single-layer applications (10-50 mm) without sagging. It is ideal for general concrete repair, spall filling, surface restoration, and patching where cost-effectiveness and simplicity are priorities.

## PRIMARY APPLICATIONS

**ChemFit RepairLite 9210** is recommended for use in conditions such as:

- Repair of spalled, cracked, or deteriorated concrete on walls, ceilings, floors
- Horizontal slabs, vertical columns, overhead beams
- Patching thickness from 10 mm to 50 mm in one application
- Filling honeycombs, formwork tie holes, and surface defects
- Economical restoration of industrial floors, parking decks, and infrastructure

## KEY FEATURES AND BENEFITS

- **Lightweight** – Reduces structural load; easier handling and application
- **Non-sag** – Stays in place on vertical and overhead surfaces without formwork
- **Economical** – Cost-effective solution for large-volume repairs
- **One component** – Just add water; consistent and simple
- **Layer thickness 10-50 mm** – Single application for most repairs
- **Good yield** – Approximately 14 liters per 25 kg bag
- **Easy to apply** – Trowel application, good workability
- **Chloride free** – Safe for reinforced concrete

## PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Fine, free-flowing powder
Color	Gray
Form	Powder (one component)
Basis	Cementitious with lightweight aggregates
Maximum Aggregate Size	< 2 mm
Mixing Water Requirement	Approximately 3.5 – 4.0 L per 25 kg bag
Yield per 25 kg bag	Approximately 14 liters (wet)
Pot Life (at 25°C)	20 – 30 minutes
Initial Set (at 25°C)	60 – 90 minutes
Final Set (at 25°C)	2 – 3 hours
Application Temperature	+5°C to +35°C
Layer Thickness (single application)	10 – 50 mm
Density (hardened)	Approx 1,600 – 1,800 kg/m <sup>3</sup> (lightweight)

## PACKAGING AND STORAGE

### Packaging:

- 25 kg bags with moisture barrier

### Storage:

- Store in original sealed bags in a cool, dry location
- Protect from moisture, humidity, and direct sunlight
- Stack pallets off the ground
- Keep bags intact and sealed until ready for use

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

## DOSAGE AND COVERAGE RATES

**Yield:** approximately 14 liters of mixed mortar per 25 kg bag

Thickness	Coverage per 25 kg bag
10 mm	Approximately 1.4 m <sup>2</sup>
20 mm	Approximately 0.70 m <sup>2</sup>
30 mm	Approximately 0.47 m <sup>2</sup>
40 mm	Approximately 0.35 m <sup>2</sup>
50 mm	Approximately 0.28 m <sup>2</sup>

**NOTE:** Coverage varies with substrate porosity and surface texture. Allow extra for waste.

## APPLICATION GUIDLINES

### Surface Preparation:

- Substrate: clean, sound, free from dust, oil, laitance, loose particles
- Remove unsound concrete; expose sound texture; cut square edges
- Pre-soak to SSD (saturated surface dry) – damp, no standing water

### Mixing:

- Water: 3.5 – 4.0 L per 25 kg bag (use lower water for vertical/overhead)
- Add powder to water while mixing; drill (400-600 rpm) for 3-5 min
- Rest 2-3 min, remix 30 sec; use within pot life (20-30 min @25°C)

### Application:

- Apply by steel trowel; press firmly into substrate
- Build to 10-50 mm in one layer (non-sag)
- For deeper repairs (>50 mm), apply in layers; allow previous layer to stiffen (1-2 hours)
- Finish as required (smooth, textured)

### Curing:

- Protect from sun, wind, rapid drying; cover with plastic or use curing compound
- Moist cure minimum 2 days (3-5 days for critical areas)
- Hot weather: use cool water, shade; cold weather: use warm water (20-30°C)
- Do not apply below +5°C or if freezing within 24 h

## HEALTH AND SAFETY

Alkaline – causes eye and skin irritation. If eye contact: rinse 15 min, seek medical aid. Skin: wash with soap and water. If swallowed: do not induce vomiting – rinse mouth, drink water, seek medical aid. Use gloves, safety glasses, protective clothing. Avoid dust inhalation. Refer to SDS.

## CLEANG OF TOOLS

Clean equipment with water immediately after use. Dried material requires mechanical removal.

## APPROVALS AND STANDARDS

**ChemFit RepairLite 9210** conforms to the following standards:

- Lightweight, economical, non-sag patching and repair mortar
- Suitable for horizontal, vertical, overhead applications; thickness 10-50 mm
- **Conforms to ASTM C1660** (standard for thin-bed patching mortars – type applicable)
- Chloride free – safe for reinforced concrete

## 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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