

CHEMFIT LEVEL G

One-Component Cementitious Mortar for Indoor Flooring Leveling and Regularization – For Leveling Holes, Small and Large Surfaces

PRODUCT DESCRIPTION

ChemFit Level G is a one-component, cementitious, self-leveling mortar specifically formulated for indoor flooring leveling and regularization. This high-performance, ready-to-use powder mix is designed to create smooth, flat, and level substrates prior to the installation of final floor coverings such as tiles, wood, carpet, vinyl, and epoxy coatings. It is suitable for thicknesses from 1 mm to 10 mm in a single application. For thicknesses up to 30 mm, add 30% of 0-4 mm aggregates.

PRIMARY APPLICATIONS

ChemFit Level G is recommended for use in conditions such as:

- Leveling and regularization of indoor concrete and cementitious subfloors
- Repair of holes, cracks, spalls, and surface imperfections
- Preparation of substrates for final floor coverings (tiles, wood, carpet, vinyl, epoxy, polyurethane)
- Smoothing uneven floors in residential, commercial, and industrial buildings
- Filling of voids and irregularities prior to floor finishing

KEY FEATURES AND BENEFITS

- **One-component** – Just add water; consistent and easy to use
- **Self-leveling** – Flows and levels without troweling
- **Wide thickness range** – 1-10 mm in single application; up to 30 mm with added aggregates
- **Rapid setting** – Fast curing for quick floor covering installation
- **Excellent adhesion** – Strong bond to properly prepared concrete and cementitious substrates
- **Low shrinkage** – Minimizes cracking and curling
- **High compressive strength** – Suitable for commercial and light industrial applications
- **Good coverage** – Approximately 2 kg/m² per mm thickness
- **Easy to mix and apply** – Pumpable or pour-able by hand
- **Chloride free** – Safe for use over reinforced concrete

PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Fine, free-flowing powder
Color	Gray
Form	Powder (one component)
Basis	Cementitious with polymer modifiers
Maximum Aggregate Size	< 0.5 mm (standard mix)
Mixing Water Requirement	4.0 – 4.5 L per 25 kg bag
Yield per 25 kg bag	Approximately 12.5 liters (wet)
Pot Life (at 20°C)	15 – 20 minutes
Flow Time (at 20°C)	5 – 8 minutes
Initial Setting Time	30 – 60 minutes
Light foot traffic	2 – 3 hours
Ready for floor covering	12 – 24 hours
Full cure	7 days
Application temperature	+5°C to +30°C
Substrate temperature	+5°C to +30°C
Relative humidity	< 85%

PACKAGING AND STORAGE

Packaging:

- 25 kg bags with moisture barrier

Storage:

- Store in original sealed bags in a cool, dry location between +5°C and +30°C
- Protect from moisture, humidity, and direct sunlight
- Stack pallets off the ground on wooden pallets
- Keep bags intact and sealed until ready for use

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

DOSAGE AND COVERAGE RATES

Coverage: Approximately 2 kg of powder per square meter per millimeter of thickness

Thickness	Consumption per m ²	Yield per 25 kg bag
1 mm	2.0 kg	12.5 m ²
2 mm	4.0 kg	6.25 m ²
3 mm	6.0 kg	4.16 m ²
4 mm	8.0 kg	3.12 m ²
5 mm	10.0 kg	2.50 m ²
10 mm	20.0 kg	1.25 m ²

For thickness 10-30 mm (with aggregate addition):

- Mix ChemFit Level G with 30% (by weight) of 0-4 mm clean, dry aggregates
- Coverage at 20 mm thickness: Approximately 40 kg/m² of combined material

NOTE: Coverage is approximate; varies with substrate porosity and surface profile. For thicknesses exceeding 10 mm, add 0-4 mm aggregates to prevent shrinkage cracking.

APPLICATION GUIDELINES

Surface Preparation:

- Substrate must be sound, clean, dry, and free from dust, oil, grease, laitance, curing compounds, loose particles, and any contaminants
- Mechanically abrade (grinding, shot blasting) to achieve open texture
- Fill deep holes and cracks > 5 mm with suitable repair mortar before leveling
- Vacuum thoroughly to remove all dust
- Apply compatible primer (e.g., ChemFit Primer G) to seal porous substrates and improve adhesion
- Allow primer to dry completely before applying self-leveler

Mixing:

- Add 4.0 – 4.5 liters of clean, potable water to a clean mixing container
- Slowly add the entire 25 kg bag while mixing with a low-speed drill (400-600 rpm)
- Mix for 2-3 minutes until smooth, lump-free consistency
- Allow to stand for 1 minute, then remix for 30 seconds
- Use within pot life (15-20 minutes at 20°C)
- For thickness > 10 mm, pre-blend powder with 30% 0-4 mm aggregates before adding water

Application:

- Pour mixed material onto prepared substrate
- Spread using a notched trowel or spiked roller to achieve uniform thickness
- The material will self-level naturally
- For larger areas, pour in continuous strips and work quickly
- Use a spiked roller to remove trapped air bubbles
- Protect from drafts, direct sunlight, and rapid drying during setting

Curing:

- Protect from water and mechanical damage during first 24 hours
- Light foot traffic after 2-3 hours (at 20°C)
- Ready for final floor covering after 12-24 hours
- For thick layers (>10 mm), extend drying time to 48-72 hours
- Do not apply below +5°C or if freezing expected within 24 hours

HEALTH AND SAFETY

ChemFit Level G is alkaline and may cause severe eye and skin irritation. In fresh, wet state, the product is caustic. If eye contact occurs, rinse immediately with plenty of water for 15-20 minutes and seek medical attention. For skin contact, wash immediately with soap and water; remove contaminated clothing. If swallowed, do not induce vomiting; rinse mouth and drink water, then seek medical attention. Use gloves, safety glasses, and protective clothing during handling. Avoid inhalation of dust – use dust mask if ventilation is poor. Refer to the Safety Data Sheet for detailed information.

CLEANG OF TOOLS

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

APPROVALS AND STANDARDS

ChemFit Level G complies with the following standards:

- **EN 13813** – Screed material and floor coatings (Class CT-C25-F6)
- **EN 13892-2** – Compressive and flexural strength testing
- **ISO 9001** – Quality management system certified

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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