CHEMFIT FLOOR 161

2-Part Epoxy Primer, Leveling Mortar, Intermediate Layer and Mortar Screed – For Concrete, Cement Screeds, Epoxy Mortars & Flooring Systems

PRODUCT DESCRIPTION

ChemFit Floor 161 is a two-part, high-solids epoxy resin system formulated for use as a primer, leveling mortar, intermediate layer, and mortar screed. It is designed to penetrate and seal concrete and cement screeds, providing a strong mechanical and chemical bond for subsequent flooring systems. The versatile formulation allows it to be used as a liquid primer, or mixed with graded sand to create a trowelable mortar for leveling work.

PRIMARY APPICATIONS

ChemFit Floor 161 is recommended for use in conditions such as:

- Priming of concrete, cement screeds, and blockwork prior to epoxy or polyurethane flooring
- Leveling of minor surface irregularities as a skim coat
- Bonding intermediate layer between substrate and flooring system
- Binder for epoxy mortar screeds (mixed with sand or aggregate)

KEY FEATURES AND BENEFITS

- **Two-part epoxy** – High mechanical strength and chemical resistance
- **Multi-functional** – Can be used as a primer, leveling compound, intermediate layer, or screed binder
- **High solids** – Low shrinkage and good penetration
- **High adhesion** – Provides a durable bond between various substrates and floor toppings
- **Solvent-free** – Safe for indoor use and reduces VOC emissions

PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Part A: Liquid; Part B: Liquid
Color	Clear/Amber (undiluted) or Pigmented (Grey)
Mix Ratio	Refer to product label (commonly 2:1, 3:1, or 4:1)
Density (mixed)	~1.1 – 1.5 kg/L (primer consistency)
Pot Life (at 25°C)	30 – 60 minutes
Touch Dry	4 – 8 hours
Full Cure	7 days

PACKAGING AND STORAGE

Packaging:

- 30 kg unit (pre-weighed resin and hardener)

Storage:

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

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

DOSAGE AND COVERAGE RATES

Values are approximate and vary by substrate porosity and application method.

Application Type	Mix Ratio (Base : Hardener : Sand)	Consumption (approx.)
Primer (Sealing Coat)	As per label (no sand)	0.2 – 0.4 kg/m²
Primer (With Sand Sprinkling)	As per label	0.3 – 0.5 kg/m²
Leveling Mortar / Screed	[Base + Hardener] + 1-2 parts Sand	1.5 – 1.7 kg/m² per mm

Yield per 30 kg unit (as primer): Approximately 75 – 100 m².

NOTE: Theoretical coverage is based on smooth, sealed substrates. Porous or rough surfaces will require more material.

APPLICATION GUIDLINES

Surface Preparation:

- Substrate must be sound, clean, dry, and free from dust, oil, grease, laitance, and loose particles
- Mechanically abrade (shot blasting or grinding) to achieve an open texture
- Vacuum thoroughly to remove all dust

Mixing:

- Pre-mix Part A (Resin) before adding Part B (Hardener)
- Mix with a low-speed drill (300-400 rpm) for 2-3 minutes until uniform
- **For Mortar/Screed:** Add clean, dry, graded sand (e.g., 0.1-0.7 mm for thin layers) to the mixed liquid and blend until workable

Application:

- **Primer:** Apply by brush, roller, or squeegee. For a bond coat, sprinkle dried silica sand into the wet primer
- **Leveling Mortar:** Apply by notched trowel or squeegee
- **Screed:** Apply by trowel, compacting firmly

Curing:

- Overcoat within the recoat window (24-48 hours)
- Protect from dust, water, and mechanical damage during curing
- Do not apply below +10°C or if relative humidity is above 85%

HEALTH AND SAFETY

Epoxy resins and hardeners may cause skin and eye sensitization. If eye contact occurs, rinse with water for 15 minutes and seek medical attention. For skin contact, wash immediately with soap and water. Use nitrile gloves, safety glasses, and protective clothing. Ensure adequate ventilation. Refer to the Safety Data Sheet for detailed information.

CLEAING OF TOOLS

Clean tools with xylene, acetone, or epoxy thinner immediately after use. Dried epoxy requires mechanical removal.

APPROVALS AND STANDARDS

ChemFit Floor 161 complies with the following standards:

- **ASTM D4541** – Pull-off adhesion strength testing (where applicable)
- **ISO 9001** – Quality management system certified
- Two-part epoxy primer, leveling mortar, intermediate layer, and mortar screed
- Suitable for concrete, cement screeds, epoxy mortars, and flooring systems

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.

CHEMFIT CONSTRUCTION CHEMICAL AND SERVICES LIMITED

Office No. 8, 1KM Near Gaey Soap, Sargodha Road, Faisalabad
Tel: +923364544837
Web: www.chemfitchemicals.com
Email: chemfit.pro@gmail.com