CHEMFIT FLOOR 261

2-Part Epoxy Self-Smoothing, Broadcast and Textured Coating, Mortar Screed and Seal Coat – For Concrete and Cement Screeds with Normal to Medium Heavy Wear: Storage Halls, Workshops, Garages & Loading Ramps

PRODUCT DESCRIPTION

ChemFit Floor 261 is a two-component, solvent-free, pigmented epoxy resin-based flooring system. It is a versatile, multi-purpose binder that can be used to produce self-smoothing and broadcast floors, textured coatings, mortar screeds, and seal coats. Due to its low viscosity and high filler acceptance, it is suitable for applications in normal to medium heavy traffic areas. It is ideal for use in hot and tropical climates.

PRIMARY APPICATIONS

ChemFit Floor 261 is recommended for use in conditions such as:

- Self-smoothing and broadcast flooring systems for concrete and cement screeds.
- Textured anti-slip coatings.
- Mortar screeds and high-build roller coatings.
- Seal coat for broadcast systems (e.g., in car parks or food industry areas).
- Suitable for storage halls, assembly areas, maintenance workshops, garages, and loading ramps.

KEY FEATURES AND BENEFITS

- **Versatile** – Can be used as a binder for self-smoothing, broadcast, textured, and mortar systems.
- **Solvent-free** – Environmentally friendly, low odor, and safe for indoor use.
- **Good mechanical resistance** – High abrasion and impact resistance suitable for medium-heavy traffic.
- **Good chemical resistance** – Protects against oils, greases, and industrial chemicals.
- **Seamless and hygienic** – Jointless surface that is easy to clean and resistant to bacteria/fungi.
- **Fillable** – Can be mixed with quartz sand to achieve desired thickness and texture

MECHANICAL PROPERTIES

Property	Value
Compressive Strength	~50 N/mm²
Flexural Strength (Tensile in Flexure)	~20 N/mm²
Tensile Adhesion Strength	> 1.5 N/mm² (failure in concrete)
Shore D Hardness	~76
Abrasion Resistance (Taber)	< 100 mg (CS 10/1000/1000)
Thermal Resistance	Permanent: +50°C, Short-term: +80°C

PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Part A: Pigmented liquid; Part B: Transparent liquid
Color	Range of RAL colors available (e.g., RAL 7032 Pebble Grey)
Basis	Two-part, solvent-free epoxy resin
Mix Ratio	Refer to product label (varies by application). Standard base to hardener ratio is approx. 70:30 to 80:20 by weight.
Density (Mixed resin)	~1.43 – 1.45 kg/L
Density (Filled resin)	~1.84 – 1.90 kg/L (depending on sand ratio)
Solids Content	~100% (by weight & volume)
Pot Life (at +20°C)	~25 – 30 minutes (depending on batch size)
Touch Dry (at +20°C)	~10 – 12 hours
Full Cure	7 days
Application Temperature	+10°C to +30°C
Substrate Temperature	+10°C to +30°C (must be ≥3°C above dew point)
Relative Humidity	Max. 80%

PACKAGING AND STORAGE

Packaging:

- 20 kg + 10 kg unit (30 kg total – Part A + Part B)
- Alternative packaging: 20 kg ready-to-mix units

Storage:

- Store in original sealed containers at +5°C to +30°C
- Protect from direct sunlight, moisture, and freezing
- Keep containers tightly sealed when not in use

Shelf life: 12 months from date of manufacture when stored properly in undamaged, unopened packaging

DOSAGE AND COVERAGE RATES

Application Type	Mix Ratio (Base : Sand)	Consumption (approx.)	Coverage per 30 kg unit
High-build roller coat / seal coat	Neat (1:0)	0.35 – 0.50 kg/m²	60 – 85 m²
Self-smoothing (1 mm thickness)	1 : 0.8	~1.8 – 1.9 kg/m² per mm	~15 – 16 m² per mm
Broadcast base coat	1 : 1.0	~2.0 kg/m²	~15 m²
Texture coating	Neat + 1.5-3% Extender T	0.55 – 0.90 kg/m²	33 – 54 m²

NOTE: For broadcast systems, add an additional ~3-6 kg/m² of quartz sand for broadcasting and ~0.7 kg/m² for the final seal coat.

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 textured surface (CSP 2-3).
- Substrate moisture content must be < 4% by weight.
- Fill blowholes and repair damaged areas with a suitable filler.

Priming:

- Porous substrates require a compatible epoxy primer (e.g., **ChemFit EpoxyPrime 1400**).
- Apply primer at approx. 0.35-0.50 kg/m² by roller or squeegee and back-roll crosswise.

Mixing:

- Pre-mix Part A (Resin) thoroughly before combining.
- Add Part B (Hardener) to Part A according to label ratio.
- Mix with a low-speed drill (300-400 rpm) for 2-3 minutes until uniform.
- De-can into another container and mix for an additional minute to ensure consistency.
- **For self-smoothing:** Add clean, dry, graded silica sand (0.1-0.3 mm) at the specified ratio and mix thoroughly.
- Use within the pot life (approx. 25 minutes at +20°C).

Application:

Self-Smoothing:

- Pour the mixed material onto the prepared and primed substrate.
- Spread evenly using a serrated trowel, pin rake, or notched squeegee.
- Immediately roll with a spiked roller in two directions to remove entrapped air and ensure uniform thickness.

Broadcast System:

- Apply base coat as described above.
- While the base coat is still wet (within 5-10 minutes), broadcast quartz sand (0.4-0.7 mm) to excess.
- Allow to cure overnight. Vacuum loose sand.
- Apply a seal coat of neat **ChemFit Floor 261** at approx. 0.7 kg/m² by squeegee and back-roll with a short-pile roller.

Curing:

- Protect from dust, moisture, and mechanical damage during cure.
- Light foot traffic: approx. 24 hours at +20°C.
- Full chemical and mechanical resistance: 7 days.
- Do not apply below +10°C or if relative humidity exceeds 80%.
- Do not apply if substrate temperature is below dew point (+3°C margin)

HEALTH AND SAFETY

Epoxy resins may cause skin and eye sensitization and irritation. 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 (nitrile), safety glasses, and protective clothing during handling. Ensure adequate ventilation – use respiratory protection with organic vapor cartridges if ventilation is poor. Refer to the Safety Data Sheet for detailed information.

CLEAING OF TOOLS

Clean all brushes, rollers, mixing equipment, and spillages with xylene, acetone, or epoxy thinner immediately after use before material cures. Dried material requires mechanical removal.

APPROVALS AND STANDARDS

ChemFit Floor 261 complies with the following standards:

- Conforms to **EN 1504-2** (Surface protection systems for concrete)
- Conforms to **EN 13813** (Screed material and floor coatings)
- **ASTM D4060** – Abrasion resistance testing
- **ASTM D4541 / EN 1542** – Pull-off adhesion strength testing
- **ISO 9001** – Quality management system certified
- 2-part epoxy self-smoothing, broadcast and textured coating, mortar screed and seal coat
- Suitable for concrete and cement screeds with normal to medium heavy wear in storage halls, workshops, garages, and loading ramps

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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