

# CHEMFIT FLOOR 155WN

**Solvent-Free, Water Dispersed Two Part Epoxy Primer – For Use on New Concrete, Cementitious Screeds, Hardened Concrete, Existing Epoxy Coatings & EpoCem Layers**

## PRODUCT DESCRIPTION

**ChemFit Floor 155WN** is a solvent-free, water dispersed two part epoxy primer based on high-quality epoxy resin. This environmentally friendly primer is designed to be easy and fast to apply, making it ideal for preparing a variety of substrates prior to the installation of final flooring systems. The water-based formulation is virtually odorless and can be used in unventilated areas. It provides excellent bond strength across its entire application temperature range and is particularly suitable for highly absorbent substrates.

## PRIMARY APPLICATIONS

**ChemFit Floor 155WN** is recommended for use in conditions such as:

- As a primer and adhesion promoter on properly prepared new and existing concrete
- As a primer on cementitious screeds and hardened concrete floors
- As a primer on existing epoxy floor coatings and EpoCem levelling layers
- As a primer for epoxy resin coatings, cementitious screeds (EpoCem), polyurethane resin coatings (PurCem) and levelling compounds

## KEY FEATURES AND BENEFITS

- **Solvent-free** – Environmentally friendly and safe for use in confined spaces
- **Water dispersed** – Easy to use and low odor
- **Excellent adhesion** – Provides a strong bond to a variety of substrates
- **Fast and easy to apply** – Can be applied by brush, roller, or trowel
- **Versatile application** – Suitable for use on damp substrates (free of standing water)
- **Long pot life** – Offers extended working time during application
- **Conforms to DIN 52615** – Meets recognized standards for water vapor diffusion permeability

## PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance / Colour	Mixed: Oxide red (similar to RAL 3009)
Basis	Water dispersed epoxy resin
Density (mixed)	~1.4 kg/L
Solid Content	~56% (by volume) / ~70% (by weight)
Viscosity (mixed)	4,900 mPa·s
Mix Ratio	Part A : Part B = 3 : 1 (by weight)
Pot Life (at +20°C)	~90 minutes (at 75% r.h.)
Full Cure	7 days
Application Temperature	+10°C to +35°C
Relative Air Humidity	85% max.

## PACKAGING AND STORAGE

### Packaging:

- 10 kg unit
- 30 kg unit

### Storage:

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

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

## DOSAGE AND COVERAGE RATES

Application	Consumption
Per coat (diluted with 10% water for first coat)	0.3 – 0.5 kg/m <sup>2</sup>

**Coverage per coat:** 2.0 – 3.3 m<sup>2</sup> per kg

- First coat: Diluted with 10% water by weight
- Second coat: Undiluted

**Yield per 30 kg unit:** Approx. 60 – 100 m<sup>2</sup> (for 2 coats)

**NOTE:** Theoretical coverage does not account for surface porosity, profile, or wastage

## 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 (shot blasting or grinding) to achieve open textured surface
- Fill blowholes, voids, and repair damaged areas with suitable filler material
- Vacuum thoroughly to remove all dust

### Mixing:

- Pre-mix Part A (resin) thoroughly before combining
- Add Part B (hardener) to Part A according to mix ratio (3:1 by weight)
- Mix with low-speed drill (300-400 rpm) for 1 minute until uniform
- Slowly add 10% clean water by weight while mixing for a further 2 minutes
- Pour into another container and mix again to ensure thorough blending
- Use within pot life (~90 minutes at +20°C) – caution: end of pot life is not visibly noticeable

### Application:

- Apply first coat (diluted) by brush, roller, or trowel at 0.3 – 0.5 kg/m<sup>2</sup>
- Overwork with a roller to ensure even coverage
- Allow primer to become tack-free (touch dry)
- Apply second coat undiluted if required
- For use as a primer for cementitious toppings (EpoCem), broadcast with sand while still wet

### Curing Times (at +20°C / 75% r.h.):

- Overcoat with epoxy/PU systems: Minimum 6 hours / Maximum 3 days
- Overcoat with cementitious toppings (EpoCem): Minimum 12 hours / No maximum

### Limitations:

- Substrate must be free of standing water (can be damp but no puddles)
- Protect application from rain/water during curing
- Substrate temperature must be at least +3°C above dew point

## HEALTH AND SAFETY

Water dispersed epoxy 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. Refer to the Safety Data Sheet for detailed information.

## CLEANG OF TOOLS

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

## APPROVALS AND STANDARDS

**ChemFit Floor 155WN** complies with the following standards:

- **DIN 52615** – Determination of water vapor diffusion permeability of construction materials and components
- **EN 13892-8** – Bond strength testing of screed materials (min. > 1.5 N/mm<sup>2</sup>)
- **EN 1504-2** – Surface protection systems for concrete (where applicable)
- Solvent-free, water dispersed two part epoxy primer
- Suitable for use on new concrete, cementitious screeds, hardened concrete, existing epoxy coatings, and EpoCem layers

## 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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