

# CHEMFIT TOPSEAL 107

**Waterproofing & Damp Proofing Cementitious Slurry – For Waterproof and Damp Proof Concrete, Cementitious Rendering, Brickwork & Blockwork**

## PRODUCT DESCRIPTION

**ChemFit Top Seal 107** is a high-performance, two-component (polymer + powder) cementitious waterproofing and damp proofing slurry. Based on advanced polymer modification technology, it provides a rigid, fully-bonded, waterproof coating for concrete, rendering, brickwork, and blockwork. Suitable for use in hot and tropical climates, it can be applied to positive or negative side faces and is ideal for sealing hairline cracks (non-structural), pore filling, and as a levelling mortar prior to final finishing.

## PRIMARY APPLICATIONS

**ChemFit Top Seal 107** is recommended for use in conditions such as:

- Interior and exterior waterproofing of concrete, brickwork, and blockwork
- Damp proofing of basement walls, cellars, and retaining walls (new build and refurbishment)
- Protection of concrete structures against de-icing salts and freeze-thaw attack
- Waterproofing of water and sewage works, tanks, and swimming pools
- Sealing fine "hairline" cracks in concrete (not subject to movement)
- Pore and blowhole filling
- Levelling mortar for concrete repair works

## KEY FEATURES AND BENEFITS

- **BBA Certified** – Certificate No. 95/3174
- **Conforms to EN 1504-2** – Provides protection against ingress (P.I.), moisture control (M.C.), and increases resistivity (I.R.)
- **Positive and negative side application** – Can be applied to either side of the substrate
- **High bond strength** – Adheres strongly to prepared concrete and masonry
- **Potable water approved** – WRAS drinking water approval for use with water (including hot water up to 60°C)
- **Good crack bridging** – Flexible enough to accommodate thermal expansion of concrete
- **Simple mixing** – Two-component, just mix part A (liquid) and part B (powder)
- **Good coverage** – ~2.0 kg/m<sup>2</sup> per mm thickness

## PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance / Colour	Liquid (white) + Powder (grey/white); Mixed: Cement grey
Packaging	25 kg set (5 kg pail Part A + 20 kg bag Part B)
Density (fresh mortar)	~ 2.00 kg/litre
Layer thickness (min/max)	Min 0.75 mm / Max 1.5 mm per coat
Pot Life (at +20°C)	~ 30 minutes
Waiting time between coats (at +20°C)	~ 6 hours
Full Cure (final waterproofing)	7 days
Application Temperature	+8°C to +35°C
Service Temperature	Suitable for hot & tropical climates

## MECHANICAL PROPERTIES

- **Adhesive tensile strength:** > 1.0 N/mm<sup>2</sup> (depending on substrate)
- **Compressive strength (28 days):** ~ 35 N/mm<sup>2</sup>
- **Flexural strength (28 days):** ~ 10 N/mm<sup>2</sup>

## PACKAGING AND STORAGE

### Packaging:

- 25 kg set (5 kg liquid component A + 20 kg powder component B)

### Storage:

- Store in original unopened packaging in cool and dry conditions between +5°C and +35°C
- Protect from direct sunlight and frost

**Shelf life:** Minimum 12 months from date of production if stored properly in undamaged, original, sealed packaging

## DOSAGE AND COVERAGE RATES

- **Consumption:** ~ 2.0 kg/m<sup>2</sup> per mm thickness
- **Yield:** 1 set (25 kg) yields ~ 12.5 litres of mortar

### Example coverage (total for 2 coats):

- Total thickness 1.5 – 2.0 mm: ~ 3.0 – 4.0 kg/m<sup>2</sup>
- Coverage per 25 kg set: ~ 6 – 8 m<sup>2</sup>

## APPLICATION GUIDELINES

### Surface Preparation:

- Substrate must be structurally sound, clean, and free of dust, oil, grease, laitance, loose particles, and any contaminants
- Mechanically prepare using high-pressure water jetting, needle guns, blast cleaning, or scabblers
- Pre-wet the substrate to a saturated surface dry (SSD) condition; remove any standing water before application

### Mixing:

- Stir Part A (liquid) thoroughly before use
- Pour ~half of Part A into a clean mixing container
- Slowly add Part B (powder) while mixing continuously with a low-speed drill (max 500 rpm)
- Add remaining Part A and mix for ~3 minutes until uniform, lump-free consistency
- Do NOT add water under any circumstances

### Application:

- Apply first coat by stiff brush, roller, or spray in one direction
- Apply second coat as soon as the first coat has hardened (min 6 hours at 20°C), in crosswise direction to the first coat
- For waterproofing, always use at least 2 coats (total thickness 1.5 – 2.0 mm)
- For severe water penetration or high hydrostatic pressure, apply a third coat

### Curing:

- Protect freshly applied material from rain, direct sunlight, wind, and freezing conditions
- Cure immediately after application for a minimum of 3 to 5 days using polythene sheeting or similar approved methods
- Do not apply below +8°C or if freezing expected within 24 hours

## HEALTH AND SAFETY

**ChemFit Top Seal 107** 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 immediately. 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 immediately. Use gloves (nitrile/rubber), 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 brushes, rollers, mixing equipment, and spillages with water immediately after use before the product sets. Dried or cured material requires mechanical removal.

## APPROVALS AND STANDARDS

ChemFit Top Seal 107 conforms to the following standards:

- **BBA Certificate No. 95/3174** – UK Agrément Board certification for waterproofing systems
- **EN 1504-2** – Surface protection systems for concrete (Principle 1, 2, 8)
- **EN 1504-9** – Protection against ingress (1.3), Moisture control (2.2), Increasing resistivity (8.2)
- **WRAS Approval No. 1111526** – Drinking water approval for use with water (including hot water up to 60°C)
- **BS 8102:2009** – Protection of below ground structures against water ingress (Type A barrier protection)
- **ASTM C836** – Standard specification for high solids content, cold liquid applied elastomeric waterproofing membrane
- **ISO 9001** – Quality management system certified
- Suitable for waterproofing and damp proofing concrete, cementitious rendering, brickwork, and blockwork

## 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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