

CHEMFIT LASTIC 560

Cold-Applied, One-Component Waterborne Liquid Applied Membrane, Highly Elastic and UV Resistant – For Roof Waterproofing with Many Details and Complex Geometry

PRODUCT DESCRIPTION

ChemFit Lastic 560 is a cold-applied, one-component, waterborne liquid applied membrane based on advanced polyurethane dispersion (PUD) technology. This highly elastic and UV resistant formulation is specifically designed for waterproofing roofs with many details and complex geometry. The waterborne, solvent-free formulation is environmentally friendly with low VOC content. It cures to form a seamless, highly elastic, and durable membrane that provides excellent adhesion to various substrates while remaining flexible enough to accommodate building movement. The white version reflects solar energy, reducing internal building temperatures.

PRIMARY APPLICATIONS

ChemFit Lastic 560 is recommended for use in conditions such as:

- Waterproofing of exposed roofs, balconies, terraces, and decks with complex detail areas
- Waterproofing of parapet walls, flashings, and roof penetrations
- Concealed waterproofing system for rooftops and terraces (can be applied on damp surfaces)
- Overcoating of existing sound bituminous membranes or aged roof systems
- Waterproofing of wet areas, bathrooms, and kitchens (under tile)
- Protection of concrete, metal, wood, cement boards, and polyurethane foam insulation
- Retaining walls and basements

KEY FEATURES AND BENEFITS

- **One-component** – Ready to use; no on-site mixing required
- **Waterborne** – Solvent-free, environmentally friendly, low VOC
- **Highly elastic** – Excellent elongation (>300%) for crack bridging
- **UV resistant** – Suitable for permanent exposed applications
- **Cold applied** – No heating required; easy and safe application
- **Fast drying** – Quick return to service
- **Damp surface application** – Can be applied on damp substrates
- **Seamless membrane** – Forms a fully bonded, joint-free waterproofing layer
- **Good adhesion** – Bonds strongly to concrete, metal, wood, bitumen, and other substrates
- **Breathable** – Allows water vapor transmission while remaining waterproof
- **Chemical resistant** – Good resistance against alkalis and dilute chemicals

PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Viscous liquid
Color	White (custom colors available)
Basis	Waterborne polyurethane (PUD technology)
Type	One-component, moisture curing
Density	1.34 – 1.42 kg/L
Solids content	> 66%
VOC content	< 100 g/L (LEED compliant)
Viscosity	4000 – 6000 cP
Touch dry (at 20°C/50% r.h.)	6 – 12 hours
Light pedestrian traffic	18 hours
Full cure	7 days
Application temperature	+5°C to +35°C
Substrate moisture	Can be applied on damp surfaces (no standing water)
Service temperature	-30°C to +80°C
Flash point	Non-flammable

MECHANICAL PROPERTIES

Property	Value
Tensile strength	> 1.2 – 1.5 N/mm ² (MPa)
Elongation at break	> 300 – 400%
Adhesion to concrete	> 1.5 N/mm ² (substrate failure)
Shore A hardness	> 40 – 70
Crack bridging	Up to 2.0 mm
Water vapor transmission	> 20 g/m ² /24h
Resistance to water pressure	No leakage (1m water column, 24h)

PACKAGING AND STORAGE

Packaging:

- 5 kg plastic pail
- 10 kg plastic pail
- 20 kg plastic pail

Storage:

- Store in original sealed containers at +5°C to +35°C
- Protect from direct sunlight, moisture, and freezing
- Store in dry conditions
- Protect from frost – do not allow to freeze

Shelf life: 12 months from date of manufacture when stored properly in unopened containers.

DOSAGE AND COVERAGE RATES

Application	Consumption per coat	Total consumption
First coat	1.00 – 1.25 kg/m ²	—
Second coat	1.00 – 1.25 kg/m ²	—
Two-coat system (recommended)	—	2.0 – 2.5 kg/m ²
Three-coat system (severe exposure)	—	3.0 – 3.6 kg/m ²

Yield per container:

Container	Two-coat coverage (approx.)	Dry film thickness
5 kg pail	2.0 – 2.5 m ²	~1.0 mm total
10 kg pail	4.0 – 5.0 m ²	~1.0 mm total
20 kg pail	8.0 – 10.0 m ²	~1.0 mm total

NOTE: Coverage is approximate; varies with substrate porosity, surface profile, and application method. Minimum recommended dry film thickness is 0.6 – 1.0 mm . Third coat may be applied if needed.

APPLICATION GUIDELINES

Surface Preparation:

- Substrate must be sound, clean, and free from dust, oil, grease, laitance, curing compounds, loose particles, and any contaminants
- Remove all loose or deteriorated material
- For smooth, non-porous surfaces, mechanically abrade to achieve profile
- Surface may be damp but must be free of standing water
- Repair cracks and fill voids with suitable repair mortar
- Apply compatible primer on highly porous or critical substrates

Mixing:

- Stir thoroughly before use
- Do not thin or dilute with water or any solvent
- For spray application, ensure material is at room temperature

Application:

- Apply by brush, roller (short nap), or airless spray
- Begin with details (penetrations, drains, flashings) before applying to horizontal surfaces
- Apply first coat at 1.00 – 1.25 kg/m²
- Allow first coat to dry (tack-free) – minimum 6-12 hours at 20°C
- Apply second coat crosswise to the first coat at 1.00 – 1.25 kg/m²
- For severe exposure or high UV areas, apply third coat
- Maintain wet edge to avoid lap marks
- For reinforcement at cracks and joints, embed polyester fabric into first coat

Curing Times (at 20°C/50% r.h.):

Stage	Time
Tack-free	6 – 12 hours
Light pedestrian traffic	18 hours
Full cure	7 days

Limitations:

- Do not apply below +5°C
- Do not apply if rain is expected within 24 hours
- Not suitable for permanent water immersion (e.g., ponds)
- Protect from frost during curing

HEALTH AND SAFETY

Waterborne polyurethane may cause mild eye and skin irritation. If eye contact occurs, rinse immediately with plenty of water for 15 minutes and seek medical attention if irritation persists. For skin contact, wash immediately with soap and water. If swallowed, do not induce vomiting; rinse mouth and drink water, then seek medical advice. Use gloves, safety glasses, and protective clothing during handling. Ensure adequate ventilation when using in confined spaces. This product is non-flammable. 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 material dries. Dried material requires mechanical removal. Dispose of cleaning materials in accordance with local regulations.

APPROVALS AND STANDARDS

Chemfit Lastic 560 complies with the following standards:

- **ETAG 005 Part 8** – Specific stipulations for liquid applied roof waterproofing kits based on water dispersible polymers
- **LEED EQ Credit 4.2** – Low-Emitting Materials: Paints & Coatings (VOC < 100 g/L)
- **EN 12311-2** – Tensile strength and elongation testing
- **EN 1542** – Adhesion testing
- **EN ISO 868** – Shore hardness testing
- **EN 1062-7** – Crack bridging testing
- **EN ISO 1062-3** – Capillary water absorption 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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