

FUERZA B-BRANE

SELF ADHESIVE & TORCH-APPLIED POLYMER MODIFIED BITUMINOUS WATERPROOFING MEMBRANE

FUERZA B-BRANE 3CF, 4CF, and 5CF are **high-performance, torch-applied polymer-modified bituminous waterproofing membranes**, manufactured from premium-grade, heavily modified bituminous compounds and reinforced with a **160 g/m² non-woven polyester carrier**. The rot-resistant and highly conformable reinforcement provides enhanced **tensile strength, elongation, dimensional stability, and resistance to puncture and mechanical stresses**, ensuring reliable performance under demanding service conditions.

The membranes are engineered for a broad range of **below- and above-ground waterproofing applications**, including foundations, basements, tunnels, roofing systems, car park decks, and general civil infrastructure. Their enhanced **chemical resistance and durability** make FUERZA B-BRANE particularly suitable for tanking and below-grade applications exposed to **aggressive groundwater and chemically challenging soil conditions**.

KEY ADVANTAGES

- High-strength reinforcement provides **excellent resistance to puncture, tearing, and mechanical stress**.
- **Torch-applied installation** enables rapid and efficient application.
- Provides **strong adhesion and reliable bonding** to suitably prepared substrates.
- **Highly flexible and conformable**, allowing easy adaptation to contours and irregular substrate profiles.

APPLICATIONS

FUERZA B-BRANE is engineered to provide **continuous waterproofing and damp-proofing protection** for:

- Concrete roof and floor slabs
- Basement tanking systems
- Car park deck slabs
- Concrete retaining structures
- Tunnels and subway structures

TECHNICAL SPECIFICATION

The waterproofing membrane shall comprise a high-performance, torch-applied polymer-modified bituminous (PMB) membrane, manufactured in nominal thicknesses of **3, 4, and 5 mm** and reinforced with a **160 g/m² non-woven polyester carrier**. The membrane shall exhibit enhanced tensile strength, dimensional stability, puncture resistance, flexibility, and substrate conformability, providing durable and continuous waterproofing protection under demanding service conditions.

TECHNICAL INFORMATION

Membrane thickness (+/- 5%):	CHEMfix16 1.5- 2 mm
(ASTM D 751):	CHEMfix16 3, 4 & 5mm
Reinforcement base:	Polyester fleece 160g/m ²
Softening point (ASTM D36):	120°C Penetration
(ASTM D5):	30-40 dmm
Flexibility at low temperature:	-15°C
Tensile strength (L/T):	750/550 N/5cm
Elongation of membrane (L/T):	40 / 60
Tear resistance (L/T):	170 / 180
Lap joint strength (L/T):	750 / 550 N/5cm
Load strain Longitudinal:	40,000 / 35,000
Puncture Resistance Static:	L3
Dynamic:	L3

INSTRUCTIONS FOR USE

Surface Preparation:

Concrete substrates shall be **sound, smooth, and float-finished**, with all cavities, voids, projecting nibs, and surface irregularities suitably repaired. The substrate must be **dry, frost-free, clean, and free from surface laitance, dust, oil, grease, curing compounds, and other contaminants** that may adversely affect membrane adhesion.

Priming:

Apply **FUERZA PRIMER** uniformly to the prepared substrate and allow it to dry until **tack-free** before commencing membrane installation. If the primed surface remains exposed for more than **24 hours**, it shall be thoroughly re-primed immediately prior to the application of FUERZA B-BRANE to ensure optimum substrate adhesion.

Membrane Application:

Unroll and accurately position the membrane over the prepared substrate, establishing the required alignment and detailing prior to permanent bonding. Adjacent membrane rolls shall be installed with a **minimum side lap of 100 mm**. Carefully roll the membrane back without altering its orientation.

For torch-applied installation, progressively re-unroll the membrane while uniformly heating its underside in a **controlled transverse motion using a propane gas torch**. The applied heat shall soften and activate the bituminous compound, producing controlled surface melting and subsequent **continuous adhesion to the primed substrate**. Avoid localized overheating or direct flame concentration that could damage the membrane.

All **end joints shall incorporate a minimum 150 mm overlap** and shall be fully bonded to maintain continuity and watertight integrity.

Application Tools & Equipment:

Installation of FUERZA B-BRANE 3CF, 4CF, and 5CF requires a **propane gas torch with suitable gas cylinder, sharp cutting knife, and rounded-tip trowel** for membrane cutting, positioning, and detailing. Appropriate **protective gloves and safety goggles** shall be worn during torch application, together with suitable PPE in accordance with site safety requirements.

Supply & Packaging:

FUERZA B-BRANE: Supplied in **10 m × 1 m rolls**, available in **1.5–2.0 mm self-adhesive** and **3, 4, and 5 mm torch-applied** grades.
FUERZA PRIMER: Supplied in **20 L and 200 L drums**.

Coverage:

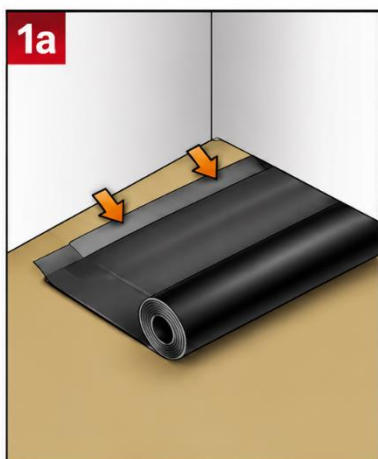
FUERZA PRIMER: Typical coverage is approximately **0.5–1.0 L/m²**, subject to substrate porosity, surface profile, and application conditions.

SHELF LIFE & STORAGE

FUERZA B-BRANE has a **12-month shelf life** when stored in the **original, unopened packaging** under cool, dry conditions, protected from direct heat sources. Rolls shall be stored **horizontally and stacked no more than one pallet high** to prevent deformation or packaging damage.

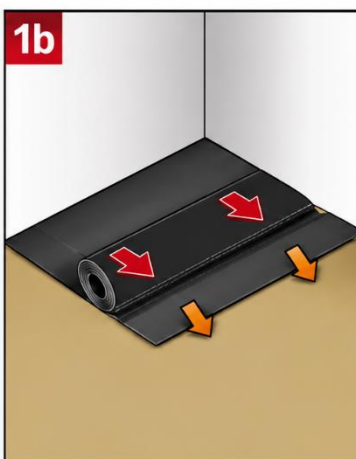
HEALTH & SAFETY

FUERZA B-BRANE is **not classified as hazardous under applicable current regulations**; however, appropriate precautions shall be observed during handling and installation. Avoid ingestion and direct contact with **skin and eyes**, and wear suitable **protective gloves and safety goggles**. In case of skin contact, wash the affected area thoroughly with clean water. If contact with the eyes occurs, immediately flush with **plenty of clean water** and seek medical attention. If accidentally swallowed, obtain **immediate medical assistance and do not induce vomiting**.



MEMBRANE ALIGNMENT

Position the next roll with the specified side overlap (usually 50–100 mm). Ensure proper alignment and flat placement without wrinkles.



OVERLAP & PREPARATION

Ensure correct overlap and clean the area. Prepare the membrane surfaces for heat welding.



HEAT WELDING

Use approved hot wedge or hot air welding equipment to weld the overlap. Ensure continuous pressure and uniform heat for a watertight seal.

