

FORCE 4000 TRAFIC

BELOW GROUND WATERPROOFING

USAGE

FORCE 4000 TRAFIC is a waterproofing membrane for the external treatment of foundations providing protection against water penetration. FORCE 4000 TRAFIC is a high performance membrane, principally designed for all below ground waterproofing systems. FORCE 4000 TRAFIC can be used on either masonry or concrete foundations and on the following:

- Basements, foundations.
- Retaining walls, underground structures.
- Civil engineering works, bridges, tunnels.

PRODUCT

FORCE 4000 TRAFIC is a 4mm thick torchable membrane with an SBS bitumen binder. Reinforced with a heavy non-woven polyester sheet, it is covered on its undersurface with a torchable plastic film and on the surface with white granules. The selvedge width is 80 mm. FORCE 4000 TRAFIC contains an anti-root additive. FORCE 4000 TRAFIC is torch-applied ensuring a perfect adhesion to the foundations.

PERFORMANCE FINISHED PRODUCT

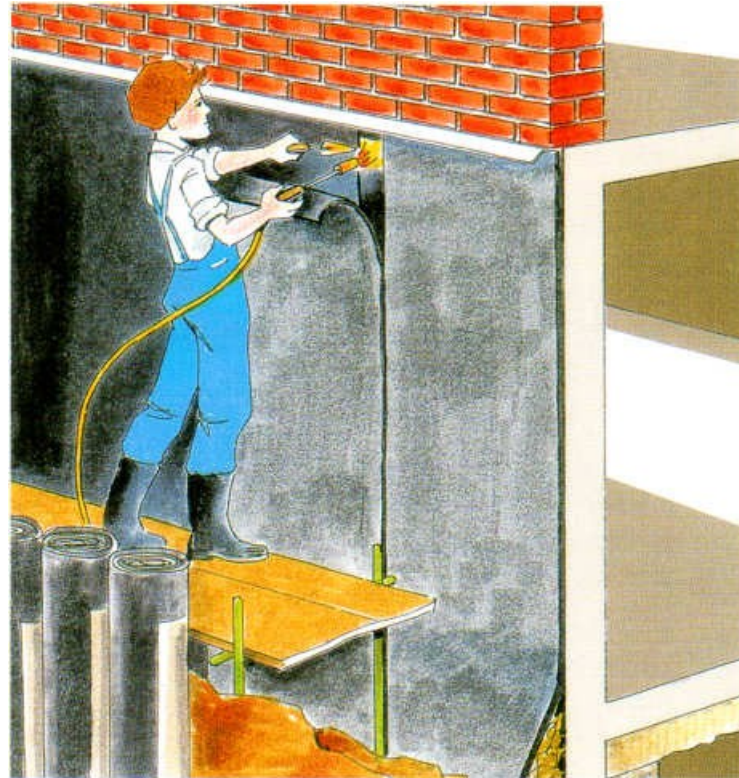
Resistance to point loading	: 35kg
Elongation	: 45%
Tensile strength	: 1,000N/5cm
Tear resistance	: 30daN

COMPOSITION

Non-woven polyester	: 0.250kg/m ²
Elastomeric bitumen	: 3.470kg/m ²
Plastic film	: 0.010kg/m ²
Granules	: 1,200kg/m ²
Anti-root additive	: 0.020kg/m ²

ELASTOMER SBS BITUMEN

Elongation	: 1500%
Penetration at 25°C	: 40
Softening point	: 130°C
Cold flexibility	: -25°C



ADVANTAGES

- High performance, high impact resistance membrane treated with an anti-root additive and designed to meet all performance requirements of foundations.
- Improved resistance to tearing, permanent deformation and puncture necessary when backfilling in situ.
- Simple, quick, clean and safe installation using torch-welding techniques.
- Excellent stability and good flexibility.
- Specification approved by official organisations.
- Safe and strong system.
- Very high performance product.



Installation of FORCE 4000 TRAFIC

Installation of FORCE 4000 TRAFIC for foundation protection

1. Support

Ensure foundations are suitable to receive waterproofing. Ensure surfaces are smooth, clean and dry to achieve the best possible adhesion.

2. Installation of FORCE 4000 TRAFIC

- Prime the foundations.
 - Apply one or two coats of VERNIS ANTAC primer to all foundations at a rate of 300 to 350g/m² and allow to dry.
 - Fully torch the FORCE 4000 TRAFIC to the foundations with a 80mm selvedge and end laps of 150mm.
 - Mechanically fasten as follows
 - for foundations of a depth > 1m : metal angle with 3 fastenings/1m.
 - for foundations of a depth > 2.4m : maximum length of sheet < 2.5m, 4 fastenings/1m at the head of sheet.
- All fixings should be covered by a minimum 150mm wide strip torch-applied.

3. Drainage system

Vertical drain

The following systems can be used

- AXTER drain and filter or DRAINAX
- traditional system using loose aggregate

Drainage pipe

Install perforated or porous concrete pipes or perforated PVC > 100 mm diameter and to a slope of 3 to 10mm/m.

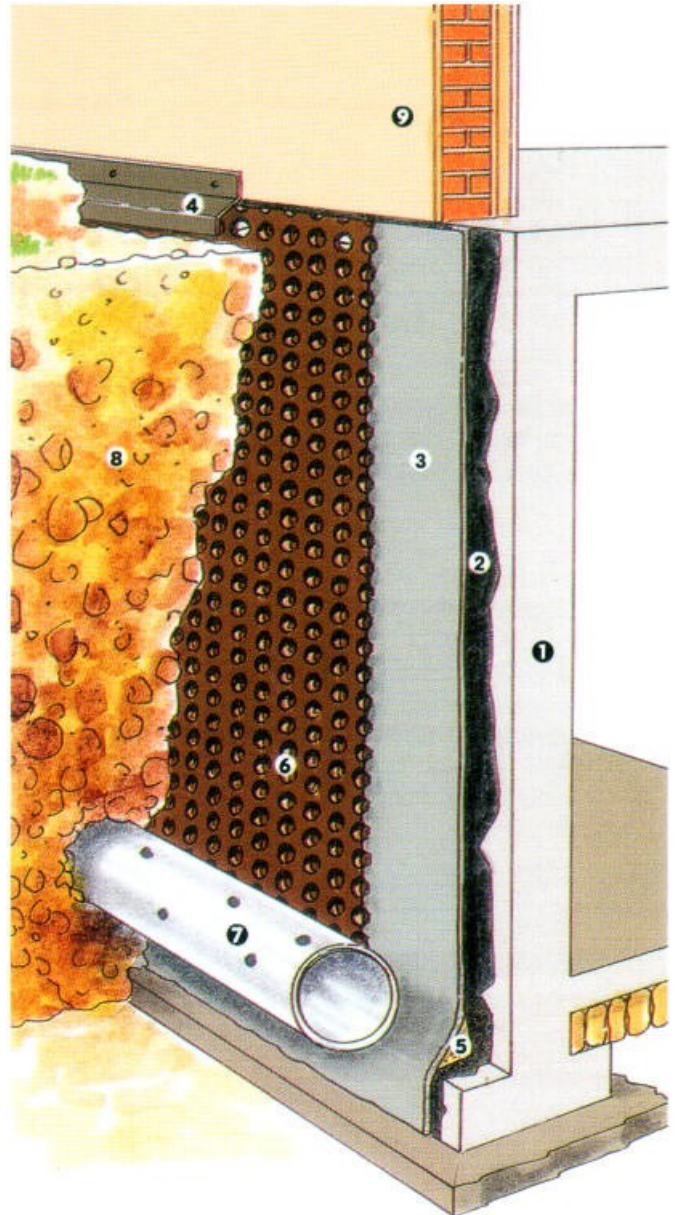
Presentation

Weight per m ²	: 5kg
Total membrane thickness	: 4.2mm
Roll length	: 8m
Roll width	: 1m
Roll weight	: 39.4kg

Packaging

20 rolls/pallet

Principles of the FORCE 4000 TRAFIC waterproofing and drainage system



- ① Concrete.
- ② VERNIS ANTAC Primer.
- ③ Waterproofing membrane.
- ④ Plastic profile.
- ⑤ Angle fillet.
- ⑥ DRAINAX
- ⑦ Drainage pipe.
- ⑧ Backfill.
- ⑨ Main structure

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