

**DESCRIPTION**

**CEMPROOF 3000/3500/4000** are high performance torches on applied membranes manufactured from bitumen modified with Atactic Polypropylene (APP) and reinforced with non-woven polyester fabric. The core gives the membrane its excellent mechanical properties, allows for good elongation, and affords high resistance to puncture. The underside of **CEMPROOF 3000/3500/4000** is finished with a light polyethylene foil. This increases flame-torching efficiency, reduces gas consumption and protects the rolls during transport, handling and storage.

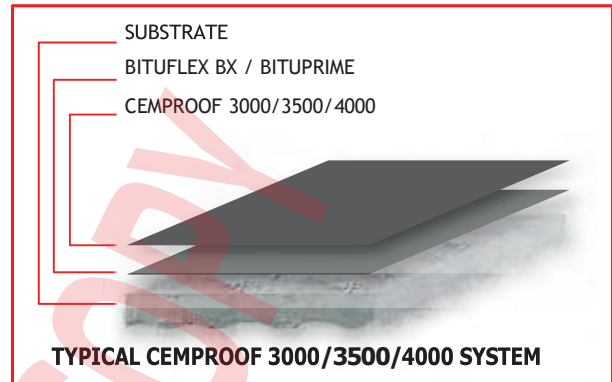
**USES**

**CEMPROOF 3000/3500/4000** is used for the waterproofing at new construction and in renewal work. It is suitable and widely been used at: -

- Tunnels and subways
- R.C concrete roof and exposed deck
- Basement tanking
- Concrete retaining structures
- Retaining walls
- Plaza decks
- Balconies and terraces

**BENEFITS**

- Reinforced, high strength, minimizing risk at site damage
- Easy to install and bond well to substrate
- Remain excellent, flexibility even at low temperatures
- Dimensionally stable
- Excellent and durable for tropical climates and light foot traffic



PRODUCT	CEMPROOF 3000 SAND / SLATES	CEMPROOF 3500 SAND / SLATES	CEMPROOF 4000 SAND / SLATES
NOMINAL THICKNESS (mm)	3.0 ± 5%	3.5 ± 5%	4.0 ± 5%
NOMINAL WEIGHT (kg/m <sup>2</sup> )	4.0 ± 5%	4.5 ± 5%	5.0 ± 5%
NON-WOVEN POLYESTER (g/m <sup>2</sup> )	160	160	160
TEST	UNIT	TEST METHOD	RESULT
WIDTH	m	EN 1848-1	1 ± 1%
LENGTH	m	EN 1848-1	10 ± 1%
STRAIGHTNESS	mm	EN 1848-1	± 6
SOFTENING POINT	°C	ASTM D-36	≥ 150
PENETRATION @ 25°C	dmm	ASTM D-5	20 ± 5
PENETRATION @ 60°C	dmm	ASTM D-5	70 ± 20
TENSILE STRENGTH			
LONGITUDINAL	N / 5cm	EN 12311-1	700 ± 20%
TRANSVERSE	N / 5cm	EN 12311-1	450 ± 20%
ELONGATION @ BREAK			
LONGITUDINAL	%	EN 12311-1	40 ± 15
TRANSVERSE	%	EN 12311-1	45 ± 15
TEARING STRENGTH			
LONGITUDINAL	N	EN 12310-1	≥ 160
TRANSVERSE	N	EN 12310-1	≥ 180
DIMENSIONAL STABILITY			
LONGITUDINAL	%	EN 1107-1	-0.5
TRANSVERSE	%	EN 1107-1	+0.5
WATER TIGHTNESS	60 Kpa	EN 1928:2000	PASS
WATER ABSORPTION	%	ASTM D-5147	≤ 1

- There may be variations from time to time on the product specification due to continuous product development.

The information given in this data sheet is to the best of our knowledge true and accurate; but as we have no control over where or how the product is applied, there are no warranties expressed or implied regarding the product's use or performance. Customers are advised to thoroughly test before adapting them to their own use. It is strongly recommended to trial on small area before large scale application.

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# CEMPROOF 3000/3500/4000

**CEMKRETE®**

ISO 9001 &amp; 14000 CERTIFIED

HIGH PERFORMANCE TORCH ON APP MODIFIED BITUMEN WATERPROOFING MEMBRANE

**SPECIFICATION CLAUSES**

All areas designated for watertight shall be protected with a high-performance torch membrane applied 3mm – 4mm.

**APPLICATION METHOD**

The application of **CEMPROOF 3000/3500/4000** waterproofing membrane is easy and versatile. The surface of the area to be waterproofed should be free of dust, dirt, protrusion and ponding water. R.C Slab shall have a gradient min 1:120 with 1:4 screeding mixing ratio.

Substrate should be treated and coated with Primer by using either: -

1. **BITUFLEX BX** (Water Based) mixed with maximum of 10% potable water at an application rate of 4.50 – 5.00 m<sup>2</sup> / liter or according to the porosity of the surface or. The BITUFLEX BX should be allowed to dry prior to the beginning of membrane application which is typically 24 hours.
2. **BITUPRIME** (Solvent Based) at an application rate of 6.00 – 8.00 m<sup>2</sup> / kg or according to the porosity of the surface. The BITUPRIME should be allowed to dry prior to the beginning of membrane application which is typically 24 hours.

The membrane is then unrolled and placed in the correct position where it is to be torched. During each stage, each roll must overlap to the side laps at 100mm and end laps at 100mm-150mm. The membrane is then re-rolled again without changing the given orientation. Repeat the action of unrolling while torching underneath the membrane by means of propane gas torch. Move the flame torch transversely for subsequent adhesion to the substrates until superficially melting the bitumen coating.

**APPLICATION TOOLS AND EQUIPMENT**

The tools and equipment required to apply **CEMPROOF 3000/3500/4000** membrane includes a propane gas torch with related gas cylinder, a knife for cutting the membrane to size, and a trowel with a rounded tip. Protective gloves and goggles are necessary when using the gas torch.

**STORAGE & MATERIAL HANDLING**

**CEMPROOF 3000/3500/4000** should be stored under dry conditions and away from heat sources. It should be stored vertically and not stacked.

**FIRE**

Certain components of **CEMPROOF 3000/3500/4000** are flammable. Care should be taken not to ignite **CEMPROOF 3000/3500/4000** during application by gas torch.

**HEALTH & SAFETY**

This product is highly combustible and contains free isocyanates; use approved respirator during application and provide adequate ventilation. No smoking is allowed. For further information, refer to the product Material Safety Data Sheet, available upon request.

**TECHNICAL SUPPORT**

**CEMKRETE** offers comprehensive range of high performance, high quality waterproofing membrane system. In addition, **CEMKRETE** offers a technical support package to specifiers and contractors which includes assistance with product selection and technical advice from staff with unrivalled experience in the industry.

**FURTHER INFORMATION**

With a wealth of technical and practical experience built up over many years in our pursuit of excellence especially in protective, flooring, and concrete technology, make **CEMKRETE** your partner today. Contact our hotline now.

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