

# Cemproof 4000 T

**CEMKRETE**

**High performance APP modified torch on applied waterproofing membranes sheet with granule finish for exposed system**

*Innovative products for your success*

## Uses

As a waterproofing applications systems which includes:

- Concrete roof and plaza decks
- Basements and swimming pools
- Car park and irrigation canals lining
- Concrete retaining structures
- Tunnels and subways

## Advantages

High strength reinforcement gives excellent resistance to puncture and stress. Cemproof 4000 T is easy to apply by torching under side of the membranes and it bonds well to the substrate. The modified bitumen membranes' coating adheres well to contours, and is dimensionally stable and also highly resistance to external elements.

## Description

Cemproof 4000 T membranes are manufactured from premium grade optimum modified bitumen improved quality with Atatic Polypropylene (APP) reinforced with a core of non-woven polyester fabric. The core has a weight approx.180 gms/m<sup>2</sup> it does not rot, and is malleable. The core gives the membrane its excellent mechanical properties, allows for good elongation, and affords high resistance to puncture and accommodates normal structural movements.

Cemproof 4000 T membranes are ideal for use in wide range of waterproofing applications such as foundations, basements, tunnels, roofs, car park decks and other civil works. The chemical resistance of Cemproof 4000 T makes it particularly suitable for tanking applications in areas where aggressive ground water conditions prevail.

## Technical support

Cemkrete offers comprehensive range of high performance, high quality waterproofing membranes and system. In addition to technical support to specifiers and contractors Cemkrete assist on product selection and technical advice from the staff with unrivalled experience in the industry.

## Specification clauses

All intended areas designated for waterproof shall be protected with a high performance torch applied 4.0 mm. thick membranes, manufactured from high quality polymer modified bituminous compounds and reinforced with non-woven polyester fabric such as Cemproof 4000T.

## Application method

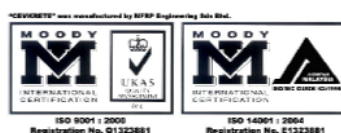
The application of Cemproof 4000 T waterproofing membrane is easy and versatile. The surface of the area to be waterproofed should be free of dust, dirt and protrusion. If necessary, the porous substrate should be treated and coated with Cemproof Primer 1 at an application rate of 0.2-.08 liter per m<sup>2</sup> or according to the porosity of the surface. The Cemproof Primer 1 should be allowed to dry prior to begin membrane application typically 24 hours. The membrane is then unrolled and placed in the correct position where it is to be torched on. During each stage, each roll must overlap to the next layer at least 8 -10 cm. The membrane is then re-rolled again without changing the given orientation, and then it is slowly unrolled again while torch on under side of the membranes by means of propane gas torch until superficially melting the bitumen coating and moving the flam torch transversely for subsequent adhesion to the substrates.

## Application tools and equipment

The tools and equipment required to apply Cemproof 4000 T membrane include 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.

## Properties:

<b>Membrane Thickness</b> (ASTM D 751) ± 5%	4 mm.
<b>Reinforcement base</b>	~160 gms/m <sup>2</sup> Polyester mat
<b>Softening Point</b> (ASTM D 36)	157 °C
<b>Penetration of Coating mixture</b> (ASTM D 5)	14.1 dmm
<b>Flexibility at low Temperature</b> (UEAtc)	-5 °C
<b>Tensile strength</b>	
Longitudinal	800 N/5cm
Transversal (ASTM D 146)	600 N/5cm
<b>Elongation</b>	
Longitudinal	40%
Transversal (ASTM D5147)	40%



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## Properties: (Continue)

### Tear resistance

Longitudinal	600N
Transversal (ASTM D5147)	450N

### Water Absorption

(ASTM D5147)	Less than 0.15%
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### Water Vapour Permeability

(ASTM E96)	< 0.2 g. / 24 hr./m <sup>2</sup>
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### Resistance to Thermal Ageing (UEATC)

Complies

### Resistance to Ageing due to UV-Radiation (UEATC)

Complies

### Chemical Resistance

Chloride, Sulphate and Phosphates

## Additional Information

Cemkrete manufactures a wide range of those complementary products which include:

- Waterproofing membranes & waterstops
- Joint sealants & filler boards
- Cementitious & epoxy grouts
- Specialized flooring materials
- Fireproof coating and systems
- Concrete admixture
- Repairing material

For further information on any of the above, please consult your local Cemkrete office - as below.

## Estimating

### Supply

Cemproof 4000 T membranes are supplied in rolls 1 x 10 meters.

### Storage

Cemproof 4000 T should be stored under dry conditions and away from heat sources.

## Precautions

### Health and safety

Protective gloves and goggles are necessary when using the gas torch to apply Cemproof 4000 T membrane.

### Fire

Cemproof 4000 T are flammable. Care should be taken not to ignite Cemproof 4000 T during application by gas torch.

**Important Note:** Cemkrete warrants its materials free of manufacturing defects and produced as per standard specifications and sold under the terms and conditions of usages, whilst Cemkrete endeavors to ensure that any advice, recommendation, or information, given through its products literatures are reflects of the R&D in-house lab test and practical sites experience and knowledge based feed backs, however, the products are being used under various conditions and applied beyond its control where or how either directly or indirectly at various locations and places at a different stages that of an intended purposes and uses. Therefore, Cemkrete cannot hold warranty or responsible for resultant consequences, such as damages to the property or assets but the product itself.