

Cemproof 3000 T

CEMKRETE

High performance torch on APP modified bitumen waterproofing membrane with sand finish

Innovative products for your success

Uses

Waterproofing and damp-proof membranes for:

- 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 3000 T is easily torch on applied and adhere well to the substrate. The modified bitumen membranes' coating adheres well to contours, and is dimensionally stable to normal structural movements in the building.

Description

Cemproof 3000 T are quality torch on applied membranes manufactured from premium grade optimum modified bitumen improved with Atatic Polypropylene (APP) and reinforced with a core of non-woven polyester fabric. The core has a weight approx.160 gms/m², 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.

Cemproof 3000 T membranes are ideal for use in a wide range of waterproofing applications such as foundations, basements, tunnels, roofs, car park decks and other civil works. The chemical resistance of Cemproof 3000 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 system. In addition Cemkrete offers a technical support package to specifiers and contractors which include assistance with product selection and technical advice from staff with unrivalled experience in the industry.

Specification clauses

All areas designated for watertight shall be protected with a high performance torch applied 3.0 mm. thick membrane, manufactured from high quality polymer modified bituminous compounds and reinforced with non-woven polyester fabric such as Cemproof 3000 T.

Application method

The application of Cemproof 3000 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 m² 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.

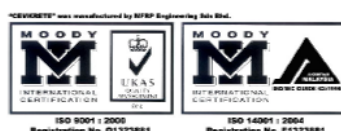
The membrane is then unrolled and placed in the correct position where it is to be torched on. During each stage, each roll must overlap to the next layer at least 8 -10 cm. The membrane is then re-rolled again without changing the given orientation, and then it is slowly unrolled again while torch on 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:

| | |
|---|---------------------------------------|
| Membrane Thickness (ASTM D 751) ± 5% | 3 mm. |
| Reinforcement base | ~180 gms/m ² Polyester mat |
| Softening Point (ASTM D 36) | 150 °C |
| Penetration of Coating Mixture (ASTM D 5) | 20-30 dmm |
| Flexibility at low Temperature (UEAtc) | -5 °C |
| Tensile strength | |
| Longitudinal (UEAtc) | 820 N/5cm |
| Transversal (ASTM D 146) | 600 N/5cm |
| Elongation | |
| Longitudinal (UEAtc) | 50% |
| Transversal (ASTM D 146) | 60% |



Cemproof 3000 T

CEMKRETE

High performance torch on APP modified bitumen waterproofing membrane with sand finish

Innovative products for your success

Properties: (Continue)

Load strain

| | |
|------------------------------|--------|
| Longitudinal (CGSB-37-GP56M) | 41,000 |
| Transversal | 36,000 |

Tear resistance

| | |
|----------------------|------|
| Longitudinal (UEAtc) | 180N |
| Transversal | 180N |

Lap joint strength

| | |
|----------------------------|----------|
| Longitudinal (UEAtc) | 750N/5cm |
| Transversal (CGSB37-GP56m) | 550N/5cm |

Puncture resistance

| | |
|----------------|----|
| Static (UEAtc) | L4 |
| Dynamic | I4 |

Creeping of the Membrane

| | |
|--|-------------|
| Applied on 60 °C sloped Surface at a test (UNI 8202) | No Creeping |
| Temperature of 100°C during 120 Hours | |

| | |
|--|-----------------|
| Water Absorption (ASTM D 1228) | Less than 0.15% |
|--|-----------------|

| | |
|---|------------------------|
| Impermeability of the Membrane to water (UNI 8202) | Absolutely impermeable |
|---|------------------------|

| | |
|--|--|
| Resistance to Thermal Ageing (UNI 8202) | No Signs of Deterioration after the test |
|--|--|

| | |
|--|--|
| Resistance to Ageing due to UV-Radiation (ASTM G53) | No Signs of Deterioration after the test |
|--|--|

| | |
|---|--|
| Resistance to Thermal Hydro Shock (ASTM G53) | No Signs of Deterioration after the test |
|---|--|

| | |
|---|--|
| Resistance to Thermal Hydro Shock (ASTM G53) | No Signs of Deterioration after the test |
|---|--|

| | |
|---|--------------------------------|
| Chemical Resistance (ASTM D 543-87) | Chloride, Sulphate and Nitrate |
|---|--------------------------------|

Estimating

Supply

Cemproof 3000 T membranes are supplied in rolls 1 x 10 meters.

Storage

Cemproof 3000 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 3000 T membrane.

Fire

Cemproof 3000 T are flammable. Care should be taken not to ignite Cemproof 3000 T during application by gas torch.

Additional Information

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

- 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.

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.