

OVERVIEW

CLEXOTOP-APP is a five layers system with Atactic Poly-Propylene (APP) modified 100 Micron HMHDPE (high molecular high density poly-ethylene) Reinforced weighing 160-180 Gsm bituminous membrane (2mm, 3mm, 4mm & 5mm) for superior waterproofing. The polymer modification of bitumen with APP results in an excellent resistance to hot and cold temperatures. This type of membrane shows excellent, elasticity and durability.

PROPERTIES

- Good heat resistance.
- Low cold flexibility.
- High tensile strength & tear strength.
- Excellent resistance to positive water & vapor pressure.
- High malleability to accommodate difficult applications as well as structural movements.
- Durability
- Resistant to water borne chemicals.

AREA OF USES

- It is used as waterproofing membrane for protection of various substrates in wide range of applications.
- Inverted roofs & parapets
- Terraces, balconies & patios
- Bridges, tunnels & underpass etc. Underground car parks etc
- Medium to large roof slabs (Domestic, commercial, industrial)
- Swimming pools, water retaining structures, etc.
- Sunken slabs.
- Ramp areas, airport aprons etc.

INSTRUCTIONS FOR USE

The application temperature should be between 5°C to 55°C. Application procedures may vary slightly Depending upon site conditions. The general recommended guidelines for the application of the waterproofing system are as follows:

SURFACE PREPARATION

The surface shall be cleaned thoroughly of all contaminants like dust, traces of curing compound, oil and grease. All surface imperfections and protrusions shall be removed and repaired. Structurally unsound and friable concrete must be removed and repaired with a suitable CLEXOCRETE-CWC concrete repair mortar.

For further details visit: www.clexoengineering.com

October 2022 – Issued by CLEXO Technical Centre,

We are driving Waterproofing administrations supplier and waterproofing workers for hire in India. We give 5 and 10 years guarantee (relies upon the material quality) on our all administrations including new and old administrations from us.

CLEXO ENGINEERING & CHEMICALS PVT. LTD. has remained an expert waterproofing administrations worker for hire on both new developments

PRIMING

Apply Solvent based **CLEXODAM-PRIME** @ 0.3-0.4L /Sqmt as per ASTM D 41 & IS: 3384-1986 and BS 4147-1980 to a clean smooth and dry surface by brush, roller or spray. Allow the primer to dry prior to the application of the membrane. As the viscosity of the primer is low, it easily penetrates into the concrete pores which promote the adhesion between the membrane and the concrete surface. In addition to that the primer also acts as a binder for the dust which gets accumulated on the concrete surface even after cleaning.

ALIGNMENT

Start the installation of all membrane plies from the low point or drains, so the flow of water is over or parallel to the plies, but never against the lap. All overlaps at the membrane seams shall be installed so as to have "up" slope laps over "down" slope lap. Begin membrane application by unrolling the roll of **CLEXODAM-PRIME** and aligning the side laps. Re-roll the roll halfway and stand on the unrolled portion to prevent shifting. Side overlaps should be a minimum of 100 mm and the end overlap 150mm.

TORCHING

CLEXOTOP-APP membranes are installed by using cylinder fed propane gas torch. Use of hand-held roofing torch is recommended as it affords a good control. If multiple burner torching machines are utilized, care must be taken to ensure the application of uniform heat and avoid overheating of the membrane. Begin torching the embossed polyethylene side of the rolled portion of the membrane.

Proper torching procedure involves passing the torch flame in an "L" pattern applying about 75 percent of the heat across the coiled portion of the roll and 25 percent across the substrate, including the lap area of the previously installed membrane.

As the membrane is heated the embossing starts to melt away exposing a shiny bitumen surface.

Roll forward the membrane and press firmly with the boot or roller against the substrate to bond well. The propane flame should be moved from side to side and up the lap edge while the membrane is slowly unrolled and adhered to the surface. Subsequent shift of the roll shall be avoided after heating has begun. When one end is complete, re-roll the opposite end not yet torched, and install in the same manner.

As subsequent rolls are installed, heat is applied to both the roll and the exposed laps of the membrane being overlapped onto. Be sure to heat the entire Roll evenly, not just the lap areas, with extra concentration at the laps.

CAUTION

Do not over torch the membrane as this will expose the reinforcement and cause damage to it.

SEALING

Heat both the overlaps and use round tipped trowel to seal the overlap. Adequate heat is confirmed when a uniform flow of melted bitumen compound flows evenly in a bead that oozes from the applied membrane's edges. Excess compound should be smoothened and pressed into the seam using a heated trowel. Any un-bonded areas must be lifted and re-torched. Do not attempt to reseal by torching the top surface of the membrane. Up stand

Flashing details are accomplished using cut pieces of **CLEXOTOP-APP** in combination with appropriate prefabricated flashing components. The same side lap and end lap rules apply to flashing details as to field membrane.

All angles and abutments should be sealed with extra care to ensure full bonding.

All brushes and tools should be cleaned by water immediately after use.

Wash all the tools and tackles with industrial solvent immediately after the application is completed.

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HEALTH & SAFETY

As with all chemicals, caution should always be exercised. avoid prolonged contact with eyes and skin. Protective clothing such as gloves and goggles should be worn. See the relevant material safety data sheet for more information.

PACKING & STORAGE

CLEXOTOP-APP is packaged in (1.00 Mtr W x 10.00 Mtr L) as per given details:-

THICKNESS:-

2MM – (1Mx10M), Weight - 2.8 Kg-3.0 Kg / SQMT

3MM – (1Mx1M), Weight - 3.8 Kg-4.0 Kg / SQMT

4MM – (1Mx10M), Weight - 4.8 Kg-5.0 Kg / SQMT

Shelf life is 12 months in unopened condition rolls. Store containers in a clean dry area protected from direct sunlight and extreme heat and cold.

TECHNICAL DATA

Product	APP Modified Membrane
Proper ties	2mm/3mm/4mm
Membrane thickness (+/- 5%)	(UEAtc. M.O.A.T.30)
Nominal weight	2.80/3.80/4.80 kg/m ² (UEAtc. M.O.A.T.30)
Reinforcement base	(HMHDPE) 100 micron (UEAtc. M.O.A.T.30)
Thickness of Polyethylene Core	0.090 mm ± 0.01 mm
Tensile strength	
Longitudinal (ASTM D 638)	130 N/5cm
Transverse (ASTM D 638)	110 N/5cm
Elongation of membrane	
Longitudinal (ASTM D 638)	300%
Transverse (ASTM D 638)	300%
Heat Resistance at 100°C (UEAtc. M.O.A.T.30)	No FlowResistance to Water PressureNo Leakage (DIN 52123)
Cold Flexibility (0°C to -2°C) (ASTM D 836)	No Cracks ObservedPenetration@25°C 20±5 (100grms/Sec) (ASTM D-5)
Softening point (ASTM D-36)	120°CService Temperature+5°C to +65°C
Packaging	(1Mx10M)Storage12 months in original condition.

PICTURES/IMAGES AT GLANCE



CLEXO ENGINEERING & CHEMICALS PVT. LTD



[An ISO 9001: 2015 Company]

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