



CLEXOPLASTIC-FELT

{20 MICRON HMHDPE (HIGH MOLECULAR HIGH DENSITY POLYETHYLENE) FILM}
CECPL-2004

OVERVIEW

CLEXOPLASTIC-FELT is a heavy duty APP modified polymeric waterproofing membrane consisting of five layers. The center core is 20 Micron HMHDPE (High Molecular High Density Poly-Ethylene) film. The polyethylene Film is the reinforcement barrier against water and moisture. The Centre Core is provided on both sides with APP polymer modified bitumen with properties of high Softening point, Heat resistance and high Penetration making it ideal for waterproofing purposes. The polymer modified bitumen is protected on both sides with thermo-fusible High Molecular High Density Polyethylene Film. The polymeric membrane has elongation exceeding 300% to absorb all Structural movements. It has a very high tensile strength and cold resistivity to adapt to all contours.

PROPERTITES

- UV resistant
- Good Flexibility to adapt all structural movements.
- Flexible at very low temperature.
- Good dimensional stability under tension.
- Resistant to water borne chemicals.
- Dimensional stability with pliability to adapt to all contours.
- Excellent weathering.

AREAS OF USES

- It is used as waterproofing membrane for protection of various substrates in wide range of applications.
- Inverted roofs & parapets.
- Corrugated asbestos or GI sheets, timber, shell/folded plates, etc.
- Terraces, balconies & patios.
- Bridges, tunnels & underpass etc.
- Sunken slabs.
- Ramp areas, airport aprons etc.

CLEXOPLASTIC-FELT in tropical regions can also be used for waterproofing of below ground concrete structures like:

- Concrete foundations & footings
- Basements
- Pile heads
- Swimming pools & water retaining structures

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

INSTRUCTIONS FOR USE

The application temperature should be between 5°C to 45°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.

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.

MOSTLY USES/FOLLOW FOR BOQ REQUIREMENT

Providing and laying in situ seven course waterproofing treatment with **CLEXOPLASTIC-FELT** (Atactic poly-propylene) modified Polymeric membrane over roof consisting of first coat of bitumen primer @ 0.40Kg per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 1.5mm thick of 2.25 Kg/sqm weight consisting of five layers prefabricated with centre core as 20micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1 cement: 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12mm layer of cement mortar 1:3 (1 cement: 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately).

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 smoothed 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.

Flashing details are accomplished using cut pieces of **CLEXOPLASTIC-FELT** 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.

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

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HEALTH & SAFETY

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

CLEXOPLASTIC-FELT is available in (1mtr W x 20mtr L):

GRADES	Felt-1	Felt-2	Felt-3
WEIGHT	1.5 kg/sqm	1.75 kg/sqm	2.25 kg/sqm
THICKNESS	0.8 mm	1.0 mm	1.5 mm
LENGTH	20 M	20 M	20 M
WIDTH	1.0 M	1.0 M	1.0 M

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	POLY FELT (PLASTIC FELT)
Proper ties	0.8mm/1.0mm/1.5mm
Membrane thickness (+/- 5%)	(UEAtc. M.O.A.T.30)
Nominal weight	1.5/1.75/2.25 kg/m ² (UEAtc. M.O.A.T.30)
Reinforcement base	(HMHDPE) 20Micron/ 0.020mm (UEAtc. M.O.A.T.30)
Tensile strength	
Longitudinal (ASTM D 638)	150 N/5cm
Transverse (ASTM D 638)	140 N/5cm
Elongation of membrane	
Longitudinal (ASTM D 638)	300%
Transverse (ASTM D 638)	300%
Heat Resistance at 120°C (UEAtc. M.O.A.T.30)	No FlowResistance to Water PressureNo Leakage (DIN 52123)
Cold Flexibility (0°C to -5°C) (ASTM D 836)	No Cracks ObservedPenetration@25°C (ASTM D-5) 25 mm+
Softening point (ASTM D-36)	150°CService Temperature+5°C to +65°C
Packaging	(1Mx20M)Storage12 months in original condition.

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PICTURES/IMAGES AT GLANCE



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[An ISO 9001: 2015 Company]

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