

BITUROLL P-4180

APP MODIFIED BITUMINOUS MEMBRANE



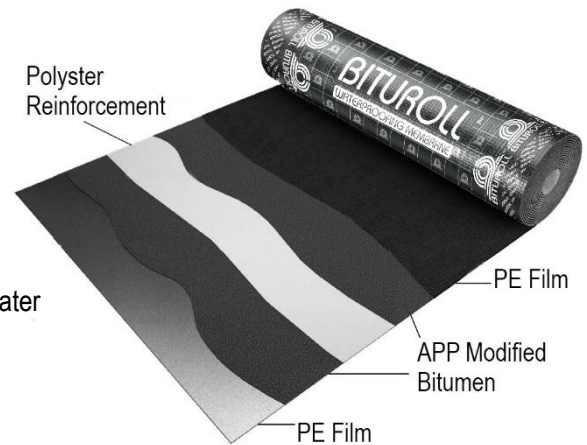
BITUROLL APP modified bitumen reinforced roofing and waterproofing membranes for general waterproofing applications. **BITUROLL** membranes are made by saturating and coating a reinforcement core with a homogeneous thermoplastic blend of APP (atactic polypropylene), distilled bitumen and stabilizers. The mixture is carefully produced under controlled conditions to ensure its thermal stability at high temperatures and flexibility at low temperatures. **BITUROLL** membranes are impermeable to water & easy to apply.

CHARACTERISTICS

- Excellent resistance to positive water & vapour pressure
- Good heat resistance
- Good dimensional stability under tension
- Can accommodate structural movements because of excellent flexibility
- High puncture and fatigue resistance
- High tensile and tear strengths
- Resistant to water borne chemicals
- Chlorine free

FIELDS OF APPLICATION

- inverted roofs & parapets
- terraces, balconies & patios
- sunken slabs, swimming pools & water retaining structures (externally)
- bridges & tunnels
- airport aprons & ramp areas
- concrete foundations & footings.
- Basements, Pile Heads



PROPERTIES

LIMITS

TESTMETHOD

| PROPERTIES | LIMITS | TESTMETHOD |
|------------------------------------|---------------------------------|-------------|
| Reinforcement Core | 180 gr/m ² Polyester | |
| Nominal thickness of membrane | 4 | ASTM D 5147 |
| Tensile Strength N/5cm | Longitudinal | 800 |
| | Transverse | 500 |
| Tensile Strength kN/m | Longitudinal | 14 |
| | Transverse | 9 |
| Elongation% | Longitudinal | 40 |
| | Transverse | 45 |
| Tear Strength (N) (Notch Method) | Longitudinal | 450 |
| | Transverse | 300 |
| Puncture resistance (N) | 800 | ASTM D 5147 |
| Resistance to Hydrostatic pressure | >7 bar(>70M) | ASTM D 5385 |
| Flexibility at low temperature | - 2° C | ASTM D 6223 |
| Softening Point * | 155° C | ASTM D 36 |
| Penetration @25° C * | 20 mm | ASTM D 5 |
| Heat resistance @ 100°C | No flow | ASTM D 6223 |
| Water absorption @ 24 hrs. | < 0.2 % | ASTM D570 |

- All values given are subject to 5-20% tolerance

- confirms to the requirements of ASTM D 5147,UEAtc2001and ISO 9001.

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STORAGE & SHELF LIFE

BITUROLL must be kept up right at all times, in a covered well-ventilated storage area, away from sources of direct heat. If ambient temperatures at storage site fall below 150°C, the rolls should be exposed to warmer temperatures of 150°C to 400°C for periods of upto 2 hours prior to use to facilitate unrolling of the membranes. If stacking is necessary, ensure that rigid sheet of plywood is placed between the pallets. Do not stack more than 2 high. **BITUROLL** membrane has a shelf life of 12 months from the date of production, if stored in a cool, dry store in original unopened packing.

SURFACE FINISH AND SIZE OF ROLL

The top surface of the membrane is covered with a thin layer of PE film or fine sand. The membranes are produced in thickness of 2, 3, 4 & 5 mm and in a standard length of 10 meters and 1 meter width.

REINFORCEMENT

A variety of reinforcement cores are used in the production of the **BITUROLL** range, these include 60gr/m², 180 gr/m², 200 gr/m² & 250 gr/m² spun bond polyester, fiberglass tissue and a combination of the two.

SUPPLY

| | | |
|----------|-----|----------------------|
| BITUROLL | 4mm | 1m x 10m, Wt-40Kg# |
| NURPRIME | | 20L Pail / 200L Drum |

Approximate weight

HEALTH & SAFETY

BITUROLL membranes contain a tacky bitumen compound which when applied can stick to human skin. Such stains can be removed by using a cloth dipped in a suitable cleaner.

SAFETY PRECAUTIONS

Any naked flame should be kept well away from the gas cylinders. When ignited the torch should be watched at all times. The torch should not be rested on finished

For further information, please contact:

Nuroil Trading FZE

Sharjah, United Arab Emirates.

Email : info@nuroil.com

Phone : +971 6 5351779

Fax : +971 6 5351769