

# BITUROLL P-4160

APP MODIFIED BITUMINIOUS MEMBRANE



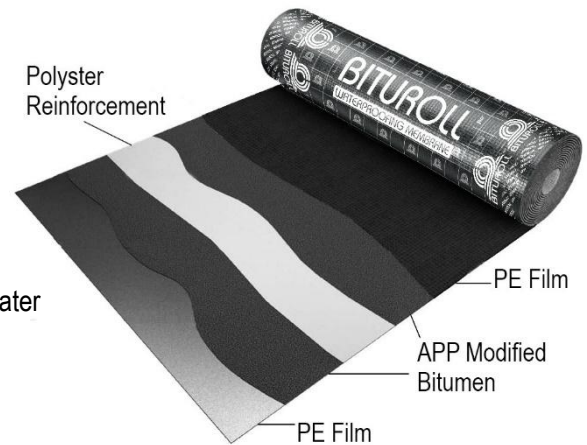
**BITUROLL** APP modified bitumen reinforced roofing and waterproofing membranes for general waterproofing applications. **BITUROLL** membranes are made by saturating and coating a reinforcement core with a homogeneous thermoplastic blend of APP (atactic polypropylene), distilled bitumen and stabilizers. 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	160 gr/m <sup>2</sup> Polyester	
Nominal thickness of membrane	4	ASTM D 5147
Tensile Strength N/5cm	Longitudinal	ASTM D 3039
	Transverse	
Tensile Strength kN/m	Longitudinal	ASTM D 5147
	Transverse	
Elongation%	Longitudinal	ASTM D 5147
	Transverse	
Tear Strength (N) (Notch Method)	Longitudinal	ASTM D 5147
	Transverse	
Puncture resistance (N)	>450	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/m<sup>2</sup>, 180 gr/m<sup>2</sup>, 200 gr/m<sup>2</sup> & 250 gr/m<sup>2</sup> 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:

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