



☒☒ THE
WATER
STOPS
HERE.

❑ Standing up to what nature dishes out, for years and years to come.


BITUROLL MEMBRANE
INNOVATIVE, TOUGH, DURABLE


Nuroil
نورویل

BITUROLL is a technology brand born as a part of utilizing Nuroil's leading market presence as a supplier of bitumen and Bituminous product.

Nuroil believe that finding the right solution can not only transform your roof, but the building itself and the lives of the occupants. Our cost-effective range of reinforced bitumen flat roofing systems BITUROLL, have been developed to meet the requirements of any flat roofing project. Offering guaranteed performance, specifiers can select high quality products suitable for a wide range of surfaces, including metal decking, timber and concrete substrates.

BITUROLL a bitumen based waterproofing membrane is produced with a mixture obtained by modifying high quality bitumen with plastomeric and elastomeric polymer additives. As the endurance of bitumen against low and high temperatures is increased by means of modification with polymeric additives, it can be conveniently applied in hot or cold ambiances. The modified bitumen is engrained in glass tissue or polyester felt and laminated on both sides via polyethylene film, polyethylene film-aluminum folio, polyethylene film-mineral stone.

Generally speaking, bitumen based waterproofing membranes are used for waterproofing of underground concrete surfaces, supporting walls, terraces, concrete roofs, wet floors, highway viaducts. Torch or hot asphalt can be utilized in the applications of the membrane.

Quality of installation is fundamental to ensuring a roof will last. We have developed advanced technologies that help roofers to achieve a high-quality finish with our bitumen systems, whatever method of installation is required.

BITUROLL BENEFITS

Resistance & Superior Service Life, Excellent Quality

Bituroll have undergone tremendous changes in the last few decades. Still, even though roofing materials are more diverse than ever, traditional bituminous membranes remain a popular choice. And rightly so, because they offer numerous benefits.

EXCEPTIONAL LIFESPAN

Exceptionally long lifespan, premium membranes easily lasting up to twenty years. Bituminous roof covering requires little upkeep over the years, although annual maintenance is recommended to extend its lifespan.

VERSATILITY

Did you know bituminous membranes are not just used for houses, schools, offices or apartment blocks? Constructors also apply them to seal bridge decks, green roofs (provided the membrane is root-resistant) and foundation walls.

IDEAL FOR RENOVATION

The thermal strips, serve a double purpose, both acting as a high-quality top layer and distributing the vapor pressure evenly throughout the roof to prevent blisters from forming.

EXCELLENT RESISTANCE

Reinforced and supplemented with polymers, so the mechanical resistance is so high that shocks and loads rarely affect them. The Bitumen layers in most of the cases modified with SBS or APP and reinforced with a strong polyester composite.

SUSTAINABILITY

Bituminous membranes are eco-friendly at long lifespan, they can be easily recycled into new membranes. If you prefer not to strip the existing roof, you can leave the old membrane as is and have it covered with new bituminous membrane.

VALUE FOR MONEY

Bituminous membranes are affordable. Provided you have the necessary expertise, you can even save on working hours, as the material is fairly easy to install.



Bituroll's provide a guaranteed, robust and watertight solution for your project.

APP vs SBS

Modified Bitumen Based Waterproofing Membrane

The APP modified bitumen uses APP (Atactic Polypropylene Plastic) and SBS modified bitumen uses SBS (Styrene-Butadiene-Styrene Rubber) polymer additive. SBS's melting point is only slightly lower than that of APP, it doesn't have the same flow characteristics as APP-modified bitumen.

Properly heated SBS-modified bitumen doesn't exhibit a liquid flow, the tendency on the part of the applicator is to give the SBS membrane more heat for a longer period of time than is really necessary. Proper torching is easy to check by back-rolling and looking for full adhesion to the substrate. SBS-modified bitumen roof membranes take less heat to install than APP.

COMPARISON	SBS	APP
Bitumen Modifier Type	Synthetic Rubber	Plastic
Softening Point	110°C - 135°C	°125C - °160C
Elongation with Full Recovery	>1000%	%10 - %5
Serviceability Range	-4°C - 412°C	°59C - °472C

Polyester vs Fiber Glass

Reinforcement Membranes

Fiberglass has been a stable reinforcement for years. Its dimensional stability and tensile strength are exceptional. The largest attribute of fiberglass is its fire rating capabilities. The earliest fire tests gave fiberglass the best fire spread rating. Multiple plies enhance these studies and ratings

Polyester is known for tremendous puncture resistance. Considering how many other trades work on rooftop equipment, puncture resistance can be a major need in reinforcements. Polyester also has high fire resistance capacity and its ability to withstand high temperatures has made for its predominant use with APP-modified bitumen. Polyester can remain dimensionally stable during the torching application or when applied in hot asphalt.



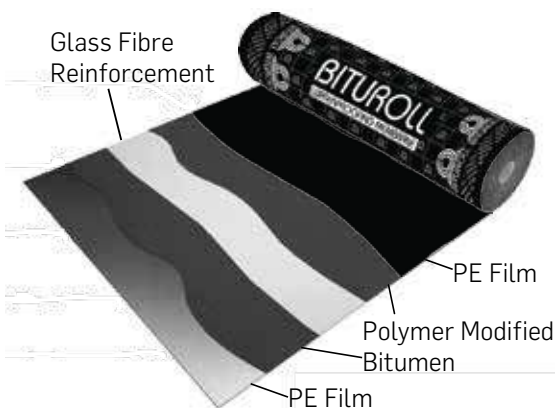
BITUROLL FIBRE GLASS



BITUROLL - FG

Fibre Reinforced Polymer Bituminous Waterproofing Membrane

BITUROLL-FG is a polymer modified bituminous waterproofing membrane, manufactured from a mixture of bitumen and selected polymers, which are blended together to obtain good waterproofing properties. The bitumen compound also exhibits high heat and UV resistance properties. The polymerized bitumen is coated on to a dimensionally stable reinforcement core of non woven glass fibre carrier.



TECHNICAL SPECIFICATION

PROPERTIES	VALUES			TEST STANDARDS
Product	P260, P360	P460	S260, S360	
Thickness, mm	2.0, 3.0	4.0	2.0, 3.0	DIN EN 1849-1
Mass per unit area, kg/m ²				
2mm	2.0 - 2.3	-	2.0 - 2.3	DIN EN 1849-1
3mm	3.0 - 3.3	-	3.0 - 3.3	
4mm	-	4.0 - 4.3	-	
Reinforcement (fibre glass), g/m ²		60		DIN EN 1849-1
Coating asphalt	APP	APP	SBS	
Softening point (R & B), °C	155	155	110	ASTM D36/DIN EN 1427
Penetration @ 25°C, 0.1mm		20 - 40		ASTM D 5/DIN EN 1426
Tensile strength (l/t), N/5cm	300/200	400/300	320/200	DIN EN 12311-1
Elongation @ break (l/t), %	3/3	3/3	3/3	DIN EN 12311-1
Tear resistance (l/t), N	150/100	200/150	250/150	DIN EN 12310-1
Puncture resistance, N	>250	>300	>120	ASTM E 154
Resistance to water pressure @ 5 bar		70		BS EN 12390
Water absorption @24hrs, %		<0.2		ASTM D 5147
Heat resistance @ 80°C		No flow		DIN EN 52 123
Low temperature flexibility @ 0°C		No crack		ASTM D 5147
Resistance to ageing		No deterioration		ASTM G 53
Dimensional stability, %		< 0.3		DIN EN 1-1107

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



CHARACTERISTICS

- Resistant to water borne chemicals.
- Good dimensional stability under tension.
- Excellent resistance to positive water and vapour pressure.
- Good flexibility. Can accommodate structural movements.

AREA OF APPLICATION

BITUROLL-FG is used as waterproofing membrane on the following structures:

- Inverted roofs and parapets
- Terraces, balconies and patios
- Sunken slabs
- Bridges and tunnels
- Airport aprons and ramp areas

BITUROLL-FG membranes in tropical regions can also be used for waterproofing of below ground concrete structure like:

- Concrete foundation and footings
- Basements
- Pile heads
- Swimming pools and water retaining structures (externally)

PACKAGING

BITUROLL-FG 2mm - 1m x 15m, #30 kg wt.
3mm - 1m x 10m, #30 kg wt.
4mm - 1m x 10m, #40 kg wt.

Nurprime SB 20 litres pail and 200 litres drum
Nurmastic 20 kg pail

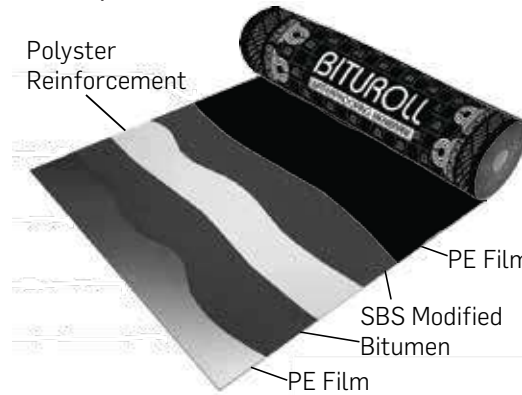
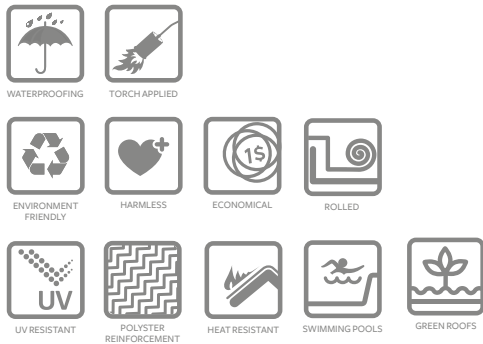
Approximate weight



BITUROLL - S

SBS Modified Bitumen Based Waterproofing Membrane

BITUROLL-S membrane are plastomeric waterproofing membranes designed to provide sub-structure concrete surfaces with perfect waterproofing protection. The elastomeric compound is carefully produced under controlled conditions to ensure its thermal stability at atmospheric temperatures and flexibility at very low temperatures. BITUROLL membranes are impermeable to water, very flexible and easy to work around contours and protrusions.



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

AREA OF APPLICATION

BITUROLL-S is used as waterproofing membrane on the following structures:

- Inverted roofs and parapets
- Terraces, balconies and patios
- Sunken slabs
- Bridges and tunnels
- Airport aprons and ramp areas
- Concrete foundation and footings
- Basements
- Pile heads
- Swimming pools and water retaining structures (externally)

TECHNICAL SPECIFICATION

PROPERTIES	VALUES				TEST STANDARDS
Product	3160, 4160	3180, 4180, 5180	4200, 5200	4250, 5250	
Thickness, mm	3.0, 4.0	3.0, 4.0, 5.0	4.0, 5.0	4.0, 5.0	DIN EN 1849-1
Mass per unit area, kg/m ²					
3mm	3.0 - 3.3	3.0 - 3.3	-	-	DIN EN 1849-1
4mm	4.0 - 4.3	4.0 - 4.3	4.0 - 4.3	4.0 - 4.3	
5mm	-	5.0 - 5.3	5.0 - 5.3	5.0 - 5.3	
Reinforcement (polyester), g/m ²	160	180	200	250	DIN EN 1849-1
Coating asphalt	Styrene Butadiene Styrene Polymer Modified Asphalt				
Softening point (R & B), °C	>115				ASTM D36/DIN EN 1427
Penetration @ 25°C, 0.1mm	20 - 40				ASTM D 5/DIN EN 1426
Tensile strength (l/t), N/5cm	500/350	800/600	850/650	1100/800	DIN EN 12311-1
Elongation @ break (l/t), %	30/45	40/50	40/50	40/50	DIN EN 12311-1
Shear resistance at joints (l/t), N/5cm	>500/350	>800/600	>850/650	>1100/800	DIN EN 12317-1
Tear resistance (l/t), N	140/170	180/200	200/220	220/240	DIN EN 12310-1
Puncture resistance, N	>450	>500	>650	>1000	ASTM E 154
Resistance to static loading	Static: L25				DIN EN 12730
Resistance to water pressure @ 5 bar	No leakage				BS EN 12390
Water absorption (BSP), %	< 0.2				ASTM D 5147
Heat resistance @ 80°C	No flow				DIN EN 52 123
Low temperature flexibility @ 0°C	No crack				ASTM D 5147
Resistance to ageing	No deterioration				ASTM G 53
Dimensional stability, %	< 0.3				DIN EN 1-1107

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

PACKAGING

- BITUROLL-P 3mm - 1m x 10m, #30 kg wt.
 4mm - 1m x 10m, #40 kg wt.
 5mm - 1m x 10m, #50 kg wt.
- Nurprime SB 20 litres pail and 200 litres drum
 Nurmastic 20 kg pail

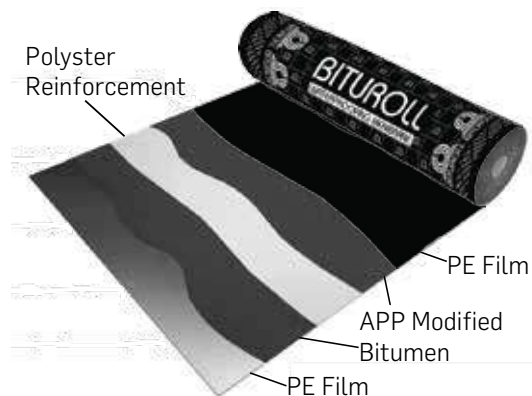
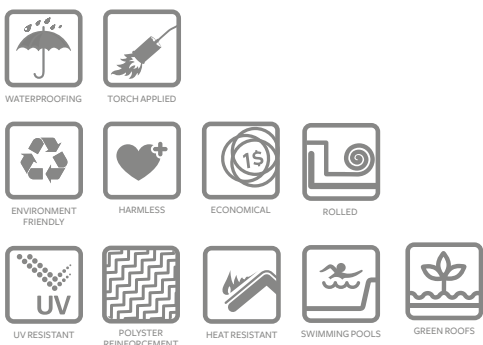
Approximate weight



BITUROLL - P

APP Modified Bitumen Based Waterproofing Membrane

BITUROLL-P membrane is a plastomeric waterproofing membrane, manufactured from a rich mixture of bitumen and selected polymers (Atactic Poly Propylene) blended together to obtain excellent heat and UV resistance and waterproofing properties. The polymerized bitumen is coated on to a dimensionally stable reinforcement core of non woven spun bond polyester rot-proof fabric.



TECHNICAL SPECIFICATION

PROPERTIES	VALUES				TEST STANDARDS
Product	3160, 4160	3180, 4180, 5180	4200, 5200	4250, 5250	
Thickness, mm	3.0, 4.0	3.0, 4.0, 5.0	4.0, 5.0	4.0, 5.0	DIN EN 1849-1
Mass per unit area, kg/m ²					
3mm	3.0 - 3.3	3.0 - 3.3	-	-	DIN EN 1849-1
4mm	4.0 - 4.3	4.0 - 4.3	4.0 - 4.3	4.0 - 4.3	
5mm	-	5.0 - 5.3	5.0 - 5.3	5.0 - 5.3	
Reinforcement (polyester), g/m ²	160	180	200	250	DIN EN 1849-1
Coating asphalt	Atactic Poly Propylene Polymer Modified Asphalt				
Softening point (R & B), °C	>150				ASTM D36/DIN EN 1427
Penetration @ 25°C, 0.1mm	20 - 40				ASTM D 5/DIN EN 1426
Tensile strength (l/t), N/5cm	500/350	800/600	850/650	1100/800	DIN EN 12311-1
Elongation @ break (l/t), %	30/45	40/50	40/50	40/50	DIN EN 12311-1
Shear resistance at joints (l/t), N/5cm	>500/350	>800/600	>850/650	>1100/800	DIN EN 12317-1
Tear resistance (l/t), N	140/170	180/200	200/220	220/240	DIN EN 12310-1
Puncture resistance, N	>450	>500	>650	>1000	ASTM E 154
Resistance to static loading	Static: L25				DIN EN 12730
Resistance to water pressure @ 5 bar	No leakage				BS EN 12390
Water absorption (BSP), %	< 0.2				ASTM D 5147
Heat resistance @ 80°C	No flow				DIN EN 52 123
Low temperature flexibility @ 0°C	No crack				ASTM D 5147
Resistance to ageing	No deterioration				ASTM G 53
Dimensional stability, %	< 0.3				DIN EN 1-1107

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



CHARACTERISTICS

- Durable and easy to apply
- High flexibility at low temperatures and stability at high temperatures.
- Remarkable resistance to aggressive attack of salts and chemicals
- High tensile strength and elongation
- Excellent puncture resistance
- High tensile and tear strengths.

AREA OF APPLICATION

BITUROLL APP is used as waterproofing membrane on the following structures:

- Inverted roofs and parapets
- Terraces, balconies and patios
- Sunken slabs
- Bridges and tunnels
- Airport aprons and ramp areas
- Concrete foundation and footings
- Basements
- Pile heads
- Swimming pools and water retaining structures (externally)

PACKAGING

- BITUROLL-P 3mm - 1m x 10m, #30 kg wt.
 4mm - 1m x 10m, #40 kg wt.
 5mm - 1m x 10m, #50 kg wt.
- Nurprime SB 20 litres pail and 200 litres drum
 Nurmastic 20 kg pail

Approximate weight



Wide range of
Liquid-Applied
Waterproofing
products to suit every
application

LIQUID WATERPROOFING MEMBRANE

Long lasting, High efficiency, High performances

Nuroil's liquid waterproofing range of product offers waterproofing materials to waterproof concrete, terraces, balconies, swimming pools, roofs, floorings, foundations and tanks, with positive and negative pressure. A liquid waterproofing membrane is essential for protecting many building structures. Innovative and different products characterized by long lasting, high efficiency, high performances and by multi purpose application because they can be used on different support.

Nuroil's liquid waterproofing products have a high technology content and offer high resistances: UV rays resistance, ponding water resistance, weathering agents resistance, freeze-thaw cycles resistance, traction resistance, cracks resistance, high and low temperatures resistance.

These flexible membranes are hand or spray applied onto surfaces such as balconies, podium decks and green roofs. They are even used to line municipal water tanks to prevent leaks. This type of protection is also used to help extend the service life of structures such as car parks.

Liquid applied waterproofing offers many advantages, including:

- **Ease of application** — Liquid waterproofing can often be applied quickly. Depending on the product, a three-man crew can apply 10,000 square feet or 930 square meters of spray-applied waterproofing in just one day. These advantages become even more pronounced when waterproofing complex spaces or spaces with lots of detailing, since it's easier to waterproof pipes and other penetrations with liquid than it is by cutting and placing sheet membranes.
- **Seamless** — Liquid applied waterproofing cures to form one solid membrane, so there are no seams or joints, which are the most common areas where waterproofing tends to fail.
- **Flexibility** — The best performing liquid waterproofing systems have the flexibility to expand and contract as the temperature changes, and adapt to minor structural movements. This way, the waterproofing continues to perform, even when exposed to extreme weather and/or when small concrete cracks occur in the underlying structure.



ENHANCED ADHESION



MOISTURE BARRIER



COLD APPLIED

NURPRIME SB

Solvent Based Bitumen Primer

Nurprime SB is a premium quality, quick drying solvent based bitumen primer. It acts as a primer and sealer coat for masonry and concrete to improve the bonding of bituminous materials. When dry, the product forms an odorless and seamless free bitumen film suitable for the protection of metals, concrete roofing, felt, fiber cement, corrugulated iron, asphalt and wood against water attack.

- Versatile bituminous primer for porous and non-porous surfaces.
- Cold applies, does not require heating. Rapid drying. Seamless / joint free.
- Can be applied on vertical and horizontal surfaces.
- Improves the adhesion between bitumen based sheet membranes and coating.
- Excellent coverage rate
- Strengthens surfaces, eliminating loose dust
- Excellent adherence to all traditional substrate in building



SOLVENT FREE



MOISTURE BARRIER



COLD APPLIED

NURPRIME WB

Water Based Bitumen Primer

Nurprime WB is an emulsified bitumen based primer designed for applications as a primer and sealer coat. Primer helps to block dust and reduces concrete porosity. The product provides good adhesion, penetration of the substrate and above all that it is formulated with water, therefore it is not flammable and is not dangerous to use. The product is odorless.

- Thanks to its superior adhesion, bituminous membrane can be adhere on the surface excellently.
- After evaporation of the water it contains, it forms a waterproof and water-insoluble layer.
- Suitable for interior applications because of non-toxic and non-flammable content.
- Water based. Environment friendly.
- Adheres perfectly to all kind of surfaces, even when the surface is moist.

APPLICABLE STANDARD

ASTM- D 41

PACKAGING



Pack Size	Per Pallet
10L Pail	64
20L Pail	48
200L Drum	4

APPLICABLE STANDARD

ASTM D1227-95 Type 3, Class I

PACKAGING



Pack Size	Per Pallet
10L Pail	64
20L Pail	48
200L Drum	4



NURCOAT

Rubberized bitumen emulsion

Nurcoat is a ready to use cold applied bitumen emulsion modified with SBR (Styrene Butadiene Rubber), to provide a tough durable and elastic coating. The cured film is weatherproof and resistant to aggressive ground salts.

- Single component, odorless, nonflammable and easy to apply tough impermeable film with good resistance to rupture during back filling.
- Excellent adhesion to concrete
- Sufficient elasticity to accommodate small movements and hairline cracks.
- Suitable for application into damp surfaces.
- Asbestos free, it can be applied in cold and confined spaces.
- Resist attack from chloride and sulphate ions, excellent resistance to extreme of temperature, avoiding risk of flow or embrittlement.
- Non-toxic, Eco friendly



NURPROOF

Elastomeric SBS Modified Bitumen Emulsion

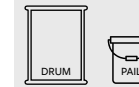
Nurproof is an SBS modified bituminous liquid membrane composed of elastomers, bitumen, resins and additives dissolve in solvent. It is a thixotropic paste easily applicable horizontally and vertically. Once dried it forms an elastic, continuous, waterproofing membrane resistant against thermal changes, UV rays and acid rains.

- Outstanding waterproof properties to ensure great protection against corrosion
- Easy to use, single component
- High elasticity with permanent flexible membrane
- Excellent water resistance after complete hardening
- Excellent adhesion to most building substrates
- Excellent resistance against Chloride and Sulphate ions
- Resistant to underground soil ground water aggressive effect

APPLICABLE STANDARD

ASTM D 1227 Type III, Class1

PACKAGING

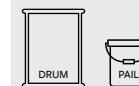


Pack Size	Per Pallet
10L Pail	64
20L Pail	48
200L Drum	4

APPLICABLE STANDARD

ASTM C 309 – 96

PACKAGING



Pack Size	Per Pallet
10L Pail	64
20L Pail	48
200L Drum	4



SWIMMING POOLS

WET AREAS

WALLS

ROOFING

VEGETATED

PARKING DECKS

PLAZA DECKS

FOUNDATIONS

COMMITMENT TO QUALITY

Since 2014, NUROIL has developed around the idea that the quality, durability and reliability of materials must match contractors and designers ambitions and expectations. Over the years, NUROIL has been using its expertise to develop a variety of high-end products that measure up to requirements of the construction field.

Our Commitment to experience in quality, environmental stewardship and safety are verified in the process of development. Additionally, on global basis, the company operates a worldwide standardization process meaning you get the same quality product at any NUROIL. Our Quality Program allows product data to be pulled straight from the manufacturing line to ensure consistency every time. Simply put, with NUROIL, consistency is built in to our process every day, everywhere.



BITUROLL is a technology brand born as a part of utilizing NUROIL's leading market presence. BITUROLL empower its clients to provide smart waterproofing solutions for their specific requirements and regulations.

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