

• DESCRIPTION

Bituplus P3160 range of modified bitumen membranes are plastomeric waterproofing membranes, manufactured from a rich mixture of bitumen and selected polymers (Atactic Poly Propylene) blended together to obtain excellent heat and UV resistant properties. Bituplus P3160 is polymerized bitumen coated on to a dimensionally stable reinforcement core of non-woven spun bond polyester fabric to obtain excellent tensile and tear strengths as well as puncture resistance.

• USES

Bituplus P3160 is used as a waterproofing/damp proofing membrane for protection of various substrates in a wide range of applications including the following:

- Inverted roofs.
- Terraces and balconies.
- Sunken slabs.
- Patios.
- Concrete foundations and footings.
- Basements.
- Pile heads.
- Swimming pools and water retaining structures.
- Bridges and tunnels.
- Airport aprons and ramp areas.

• ADVANTAGES

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

• APPLICATION

The application procedure may vary slightly depending upon site conditions. General guidelines are given below:-

Surface preparation

The surface where the membrane will be laid is to be clean and dry. All surface imperfections and protrusions are to be removed and repaired. Structurally unsound and friable concrete must be removed and repaired with a suitable repair mortar.

Priming

Apply Polyprime SB @ 4-6 m²/lt. as per ASTM D 41 to a clean, smooth and dry surface by brush, roller or spray. Refer to the primer data sheet for more details. Allow the primer to dry.

Alignment

Unroll and align Bituplus P3160 rolls and re-roll correctly before torching. Overlap should be a minimum of 100 mm.

Torching

Use gas burner to heat substrate and underside of Bituplus P3160. Embossing on the lower face of the membrane allows fast and safe laying. When embossing disappears after torching, the membrane is ready to stick. Roll forward and press firmly against the substrate to bond.

Caution: Do not over-torch as this will expose the reinforcement in the membrane and cause damage.

Sealing

Heat both the overlaps and use a round tipped trowel to seal the overlap. Excess compound should be smoothed and pressed into the seam using a hot trowel.

Up stand

All angles and abutments should be sealed with extra care to ensure full bondage. Seal the edges well into the grooves and protect with **Polyseal PS** or another mastic sealant.

• STANDARDS

Bituplus P3160 membranes conform to the requirements of ASTM D 6164 Type I & Type II, UEAtc MOAT 31-1984, and are tested in accordance with UEAtc MOAT 27-1983, ASTM D 5147.

• STORAGE

Bituplus P3160 membranes should be stored vertically in a clean covered area. Rolls should not be stacked on top of each other.

• 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 roofing. Extreme care should be taken when working near combustible materials or items which might be scorched by the gas flame.

• TECHNICAL PROPERTIES

PROPERTIES	VALUES	TEST STANDARD
Roll Size, m	1 x 10	-
Thickness, mm	3.0	-
Unit Weight, kg/m ² (plain)	3.0-3.20	UEAtc
Reinforcement (polyester), g/m ²	160	UEAtc
Coating Asphalt	Polymer Modified Asphalt	
Softening Point (R&B), °C	150	ASTM D 36
Penetration at 25 °C , 0.1 mm	15 – 25	ASTM D 5
Tensile Strength (L/T), N/5cm	700/500	UEAtc
Elongation at Break (L/T), %	35/45	UEAtc
Lap Joint Strength (L/T) N/5cm	>700/500	UEAtc
Tear Resistance (L/T), N	160/180	UEAtc
Puncture Resistance	Static : I ₄ Dynamic : I ₃	UEAtc
Resistance to leakage at joints	Pass	UEAtc
Resistance to Water Pressure	No Leakage	BS EN 12390
Water Absorption, % (BSP)	<0.2	ASTM D 5147
Heat Resistance at 120 °C	No Flow	UEAtc
Resistance to Aging after 2000 hrs (Weather – 0 – Meter)	No Deterioration	ASTM D 4799

In accordance to the standard 5 – 20 % variation is expected.

• DISPOSAL

Bituplus P3160 is non-hazardous, non-flammable and therefore can be disposed into any regular disposal area. However, it should be disposed only after wrapping with paper, plastic or cloth as the modified bitumen has a tendency to soften under heat and pressure - which will make further handling very tough.

• HEALTH & SAFETY

Bituplus P3160 contains a tacky bitumen compound which may stick and stain human skin. Such stains can be removed by using a cloth dipped in a light solvent. If the affected area becomes sensitive please seek medical advice immediately.

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The information given in this data sheet is based on our current knowledge of the product when properly stored, handled and applied. We cannot guarantee that the product will be suitable, effective or safe when used for any purpose other than its stated uses.
To the extent that it is lawful, we exclude warranties implied by law and limit our liability to the cost of replacing the product. We accept no responsibility for loss or injury caused by improper use, incompetent preparation, inexpert or negligent application, or ordinary wear and tear.
Service or advice given by our staff should not amount to responsibility for the project - since the owner, or their contractor is responsible for procedures relating to the application of the product.

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