

Technical Data Sheet

Polygomma Butyl Membrane

Description

Polygomma Butyl Membrane is a non-reinforced cured single-ply Butyl waterproofing/roofing membrane.

Preparation of Substrates

- Substrates must be clean dry and free of all contaminants. It is important that all loose & material materials, sharp edges, oil, grease, etc must be removed.
- All civil defects such as cracks, undulation, etc must be removed. The surface must be fit to receive waterproofing/roofing treatment.
- All surface voids greater than 1/4" wide shall be repaired appropriately.

Suggested Application Procedure

The Polygomma Butyl membrane is applied using the Polygomma Bonding Adhesive. An overlap of minimum 40 mm is recommended for roofing, waterproofing and tanking applications.

- Clean the surface thoroughly to remove any dirt, etc. Ensure that the surface to be bonded is clean and dry.
- Apply the Polygomma BA on both the surfaces evenly and allow it to dry for 5-10 minutes.
- Join both the surfaces and press well to get a strong and perfect bond.
- It is recommended (if possible) to keep some weight on the bonded surface to get best results.
- Please note that the maximum bond strength will occur after 24-48 hours, once the Polygomma BA is completely cured. The time taken depends on the porosity of the surface, ambient temperature, etc.
- The overlaps of the Butyl membrane can be either done with bonding adhesives or with seam tapes.

Please contact the manufacturer for detailed application procedure.

In case of a loosely laid system, the overlaps can be seamed using the Polygomma bonding adhesive or Polygomma seam tapes.

Apart from the above suggest procedure, the application procedure should be changed, keeping in mind the site conditions/requirements.

Storage

The Butyl membrane should be stored in clean and covered surroundings and it should be stored in a way that there is no physical damage to the membrane during storage.

Precautions

- Take care when moving, transporting, handling, etc. to avoid punctures and physical damage.
- Isolate waste products, such as petroleum products, greases, oils (mineral and vegetable) and animal fats from the Butyl membrane.
- Refer to Material Safety Data Sheets (MSDS) for safety information.

Technical Specifications

Technical Specifications of Polygomma Waterproofing Membrane

Physical Property	Test Method	Requirement of ASTM D-6134	Polygomma Values
Colour	-	-	Black
Thickness (mm)	ASTM D-412	1.37	1.50
Tensile Strength (MPa)	ASTM D-412	8.3-Min	8.5 to 9-Min
Elongation Ultimate (%)	ASTM D-412	300-Min	320-Min
Tear Resistance (kN/m)	ASTM D-624	26.2 Min	27.21 Min
Tensile Set (%)	ASTM D-412	10 Max	10 Max
Brittleness Point Max (°C)	ASTM D-746	-40	-40
Heat Aging (166h @ 116°C)	ASTM D-573		
➤ Tensile Strength MPa	ASTM D-412	6.2 Min	6.1 to 7.5 Min
➤ Elongation Ultimate (%)	ASTM D-412	210 Min	216.5 Min
➤ Liner Dimensional Change (%)	ASTM D-1204	±2	±2
Water Absorption Max, Mass %	ASTM D-471	2	2
Factory Seam Strength-Min (kN/m)	ASTM D-816	8.8	Liner Ruptured
Puncture Resistance (Kg)	ASTM D-154	43 Kg	48.7 Kg
Visual Inspection	-	Pass	Pass

Ref ASTM D-6134 & tolerance as per UEATC: MOAT No 46-1988

The thickness tolerance shall be +15%, -10% of the thickness agreed upon, as mentioned in ASTM D-6134. As the product standards continue to revise, please refer to the latest applicable code for any update on the properties.

The above values are taken from specimens made under reproducible conditions. However, they may differ somewhat on actual production/supply due to vulcanization conditions at the factory.

The standard width of our Butyl waterproofing membrane is 1.2 meters. For Butyl waterproofing membrane of widths above 1.2 meters, there shall be a factory vulcanized seam at 1.2 meters, parallel to the width of the Butyl waterproofing membrane.

The information given here in is based on tests conducted in-house laboratory and/or independent accredited laboratories. While the information is presented as true and accurate to the best of our knowledge, Polygomma assumes no responsibility or liability regarding the use of this information. The right to make periodic revisions of the specifications without prior notice is reserved. Many factors beyond our control can affect and influence the use and performance of our products at any application. Since these factors are uniquely within the users' knowledge and control, it is essential that users evaluate the product to determine its suitability for purpose. Please, ensure before using that product is suitable for the intend application. No warranty is given or implied by us as the site conditions and the skill of labour used for application is beyond our control.

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