

Estoproof 3P & 4P

APP High Performance Elastomeric Torch - Applied Waterproofing Sheet Membrane

Description

Estoproof 3P & 4P is a high performance APP Modified bituminous Torch applied waterproofing membrane; it is reinforced with spun bonded fibre rot proof polyester.

The underside of Estoproof 3P & 4P is finished with a light polyethylene foil. This increases flame-torching efficiency, reduces gas consumption and also protects the rolls during transport, handling and storage.

Estoproof 3P & 4P are composed of bitumen that is modified by APP, an atactic polypropylene polymer. The mixing has ensures that a true matrix inversion taken place, where the APP forms a continuous skeleton network with the bitumen filling up the void. This result in much better cold flexes temperatures and aging resistance.

Estoproof 3P & 4P has been tested by SIRIM BHD in accordance to BS 1881 Part 122:1983, on Water Absorption Test and complied with the specification in this data sheet.

Uses

Estoproof 3P & 4P is used for the waterproofing at new construction and in renewal work. It is suitable and widely been used at: -

- Concrete Roofs and floor slab
- Retaining walls
- Plaza decks
- Balconies / Terraces
- Basement tanking
- Tunnels and subways

Advantages

- Reinforced, high strength, minimizing risk at site damage
- Easy to install and bond well to substrate
- Remain excellent, flexibility even at low temperatures.
- Dimensionally stable
- Excellent and durable for Tropical climates and light foot traffic.
- Resistant to hydrostatic pressure (up to 15m head of water)

Standards Compliance

- ASTM D36
- UNI 8202
- ASTM G53
- ASTM D 146
- BS 1881 Part 122:1983

Physical Properties

Membrane Thickness Estoproof 3P Estoproof 4P	3mm 4mm
Reinforcement Base Polyester mat	180gms/m ²
Softening Point, ASTM D36	150°C
Tear Resistance Longitudinal Transversal	180N 180N
Elongation, ASTM D146 Longitudinal Transversal	50 % 60 %
Tensile Strength, ASTM D146 Longitudinal Transversal	820N/5cm 600N/5cm
Water Absorption, BS 1881 Part 122:1983	< 0.15%
Impermeability of Membrane to Water, UNI 8202	Impermeable
Resistance to Thermal Ageing, UNI 8202	No signs of deterioration
Resistance to Ageing Due to UV, ASTM G53	No signs of deterioration
Puncture Resistance Static Dynamic	L4 I4

Application Instructions

Surface Preparation

For R.C Flat Roof application, the flat roof shall have a gradient of 1:120 minimums.

Base screed (cement sand mix of about 1 : 4) is normally recommended.

Substrates should be cleaned and free from loose aggregate, form release agents and other contaminants.

All critical right angle bends must have a mortar angle fillet installed prior to application of Estoproof 3P & 4P.

Application Methods

Estoproof 3P & 4P can be loosely laid or fully bonded.

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(A) Non-Expose System

For loosely laid application, the rolls are unrolled over the roof surface. Torching must carefully seal the overlaps. The membrane is then adequately ballasted against wind uplift

For fully bonded application, all substrates must be primed with **Estoproof Primer W** at a rate of 4- 6 m²/litre, and allowed to dry.

Torch applies one layer of **Estoproof 3P or 4P** maintaining side laps of 50mm-75mm and end laps of 100mm-150mm. Fully heat weld sheet to the primed substrate.

Ensure that all laps are fully heat welded and finished with a heated spatula or propane gas torch, thus cause surface melting and subsequent adhesion to the surface.

Protection

For Horizontal Application

Estoproof membrane shall be protected with protective screed and or other approved protection system before other trades of works.

For Vertical Application

An approved protection board should be installed over the membrane prior to backfilling or covering the system with gravel.

(B) Expose System

Estoproof 3P & 4P Slated (mineral finished) are recommended to be used as an exposed waterproofing system where the protective screed is not required.

Packing & Size

Estoproof 3P & 4P	1m x 10m roll
Estoproof Primer W	200 litre drum 20 litre pail

Estoproof 3P & 4P are come in two types of finishing

- Sand Finished (Non-expose system)
- Slated Finished (Expose system)

Note: Aluminium faced range and double reinforced torch membranes are available upon request.

Technical Support

Estop offers a comprehensive range of high performance, high quality of product for both new and existing concrete surfaces. In addition, the company offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.

Storage

Estoproof 3P & 4P membrane should be stored in original unopened packaging in dry conditions.

Estoproof 3P & 4P have a shelf life of 24 months.

However, membrane shall be stored vertically and not stacked.

Precaution

Protection gloves are necessary when using the gas torch to install Estoproof 3P & 4P membrane.

Additional Information

Estop manufactures and offers a wide range of complementary products, which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.

Important Note

Estop products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which may be obtained on request. Whilst Estop endeavors to ensure that any advice, recommendation, specification or information in may give is accurate and correct, it shall not, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.