

TECHNICAL DATA

PRESENTATION :		PRO3E	PRO4E
Roll length		10 m	10 m
Roll width		1 m	1 m
Thickness		3mm deep embossed	4mm deep embossed
Roll weight (roll)		± 31 kg	± 38 kg
Roll weight (per m ²)		± 3.1 kg/m ²	± 3.8 kg/m ²
Warranty	Complies with SANS10400 building regulations	10 year Waterproofing Centre material warranty	
Proven life expectancy		Well in excess of 20 years when properly maintained (ask your nearest WPC regarding maintenance requirements)	
Protech E must be applied in strict accordance with the manufacturers code of good waterproofing practice			

PHYSICAL PROPERTIES :

Single Reinforced	Composite core of polyester and fibreglass	min 120g/m ²		
Tensile strength	50mm strip	Longitudinal 380N	Transverse 280N	Minimum values
Elongation break at ± 25°C		Longitudinal 50%	Transverse 60%	Minimum values
Dispersion		Minimum of D		
Softening point		155°C - 165°C		
Low temperature flexibility	20mm mandril	-5°C		
Note: Actual performance characteristics available on request				

Overview

The Protech E range has been developed as a cost-effective solution (whilst maintaining our high quality matrix) for standard waterproofing specifications. Manufactured in South Africa, specifically for the harsh African sun, this product is a dynamic all-rounder which can be utilised both in exposed and covered situations. The composite core of polyester and glass fibre imparts a high tensile and dimensional stability, which means it can be utilised in a singular layer when laid in exposed scenarios.



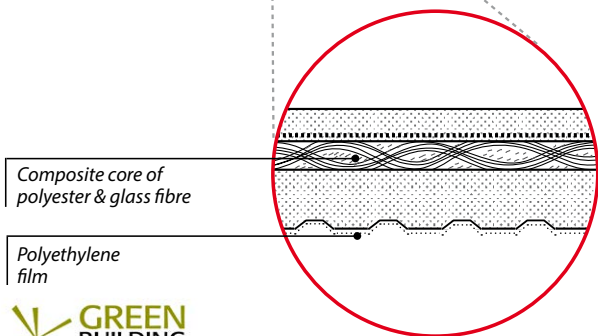
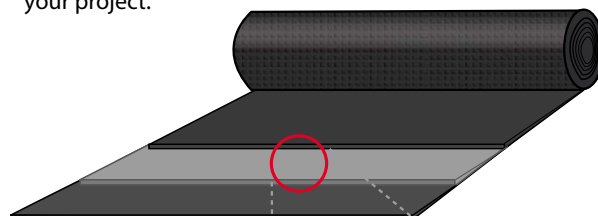
Fields of Application

The exceptional APP (atactic polypropylene) modified bitumen matrix that **Protech E** is made from ensures that the product has both superior durability as well as excellent resistance to UV degradation and dramatic thermal changes. The composite core of top grade polyester and glass fibre provides incredible tensile strength as well as flexibility. These attributes make **Protech E** suitable for:

- Lift pits
- Retaining walls
- Terraces, patios and balconies
- Exposed concrete roofs
- Timber boarded roofs
- Wide box gutters
- Parking decks
- Insulated roofs

Features

- A **single layer** of **Protech E** waterproofing membrane is used in roofing situations where the membranes are exposed.
- With buried works (such as lift pits) dual layers are specified as there is a higher level of risk, relating strongly to the difficulty of being able to get back to an area once the building is complete.
- Delta drainage membranes are often used in conjunction with the **Protech E** range so as to offer protection and remove water from an area to reduce the hydrostatic pressure against the waterproof membrane. Ask our technical consultants about which products would suit your project.



Composite core of polyester & glass fibre

Polyethylene film



Specifications are subject to change without notification. Results shown are typical but reflect inhouse test procedures used. Actual field performance will depend on installation methods and site conditions.

Reliable protection

www.waterproofingcentre.co.za

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Somerset West 021 854 4760
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Pretoria 012 803 1552
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Eastern Cape

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INSTALLATION INSTRUCTIONS

Surface Preparation

- The substrate is to be clean, dry and free of any dust, grease, oils and loose debris. It is to be of smooth and even condition and free of protrusions and voids.
- Coves/fillets are to be installed around the perimeter, to minimise 90° applications.
- Screed to falls of 1:80.
- We recommend the use of flanged WPC side outlets and/or roof drains.

Priming

- Apply WPC Bitumen Primer on substrates to receive Protech E.

Application/Bonding

- Avoid rough handling, especially at temperatures below 5°C. Work must be stopped at temperatures below -2°C.
- Our standard application of Protech E requires the product to be fully bonded by heat fusion to the substrate.
- The membrane is to be laid staggered to falls and crossfalls towards the outlets.
- We recommend side laps to be minimum of 75mm and end laps to be a minimum of 100mm.
- Use a trowel and torch to ensure adequate bonding of the laps.
- Please consult with your nearest WPC branch to discuss final finish requirements/options.

Inspection and Maintenance

- We recommend inspections are carried out annually to check counterflashing, ensure drains are clear of blockages and to observe if any mechanical damage has occurred. Issues are to be reported and rectified immediately.
- Our Protech E range is designed to last in excess of 10 years maintenance free. However, as with any exposed finish, it is good practice to carry out maintenance every 4 - 5 years.

Storage and Safety

- Protech E is to be transported and stored vertically, and evenly spaced over the roof to distribute the weight (avoiding excess loads in one area).
- The substrate/floor must be regular and free of sharp objects.
- Refer to full MSDS for additional information.



Disclaimer: The use of this product is beyond the manufacturer's control and liability is restricted to the replacement of material proven faulty. The manufacturer is not responsible for any loss or damage arising from incorrect usage. Specifications are subject to change without prior notice.

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