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a.b.e.® Construction Chemicals

Index Testudo

**ELASTOPASTOMERIC POLYMER-BITUMEN WATERPROOFING MEMBRANE
MANUFACTURED FROM DISTILLED BITUMEN, PLASTOMERS AND ELASTOMERS,
REINFORCED WITH A NON-WOVEN SINGLE STRAND SPUN BOND POLYESTER
FABRIC COMBINED WITH A GLASS FIBRE MAT, BOTH ROT PROOF**

DESCRIPTION

Index Testudo is manufactured from distilled bitumen which is modified with elastomers and plastomers and then reinforced with a non-woven continuous extruded spun bond polyester fabric, which is rot proof. It offers increased elongation properties and is resistant to heat ageing, and puncture resistant. The compound is a mixture of distilled bitumen, plastomers and elastomers which give the membrane excellent durability and flexibility at low temperatures.

Index Testudo is manufactured with a sacrificial FLAMINA polyethylene film on the lower membrane face, which prevents sticking when the membrane is being stored and which contracts and melts quickly when subjected to heat during installation. The lower face is embossed with small squares, which assist in the rapid burn off of the Flamina and helps vapour diffusion as well as indicating the correct melting point for the adhesion to the substrate.

Index membranes are unique in that they are treated with serigraph talc which prevents sticking when unrolling the membrane during laying and provides a prepared surface for the application of an aluminium reflective coating to the upper membrane surface.

USES

Due to the excellent heat & abrasion resistance and elongation properties of **Index Testudo**, it is used to solve difficult site waterproofing problems associated with industrial and domestic waterproofing.

These include: flat, sloping and pitched roofs, reinforced cast concrete deck, pre-fabricated concrete deck, metal and timber deck, terraces, under slating or under tiling, foundations, anti-earthquake foundations, car parks, waterworks, environmental work and acid resistant protection, with or without thermal insulation as well as for renovation purposes.

APPLICATION

These membranes are heat fused to the substrate using a suitable propane gas torch. Other necessary tools include a knife and a rounded nose trowel. The membrane is fully bonded. When deciding on the system to use refer to **Index Technical Specification Leaflets**; instructions for use are published in the '**Guide to Application of Index Membranes**'. When installing Index membranes remember that the surface with the **Flamina** coating should be the side which is bonded to the substrate.

To fix the sheet to the substrate, use a propane gas burner and melt off the **Flamina** coating while unrolling the sheet.

All membranes must be laid to allow side laps of 100 mm and end laps of 150 mm.

Embossing

The embossing on the underside of the membrane, which is covered by a polyethylene film, allows for fast and safe laying. Under flame, it becomes black and smooth and this indicates the correct melting point for bonding of the membrane to the background.

The embossing also allows good vapour diffusion in partial bonded and loose laid application and avoids the problem of blisters and bulges.

Talc treatment

The talc treatment on the upper side is to ensure quick unrolling of the roll.

SUPERVISION AND QUALITY CONTROL BY I.M.Q. – U.L. (UNDERWRITES LABORATORIES LTD)**Technical characteristics**

Softening point R&B (ASTM D 36) (Compound taken from impregnation bath)	> 150°C	
Reinforcement	Polyester Non-woven fabric + glass fibre felt	
Dimensional stability at 120°C (U N I 8202)	Stable	
Vertical slippage at high temperature 90°C (U N I 8202)	< 1 mm	
Flexibility at low temperature (U N I 8202)	- 10°C	
Water absorption (U N I 8202)	< 1%	
Impermeability to water (U N I 8202) (4 mm thickness)	3 > 60,000	
Tensile strength (U N I 8202) (4 mm thickness)	Longitudinal kg/5 cm 500	Transverse kg/5 cm 400
Elongation at break (U N I 8202) (4 mm thickness)	Longitudinal 50%	Transverse 50%
Puncture resistance (U N I 8208) (4 mm thickness on asbestos cement)	Static PS4	Dynamic PD 4
Tear resistance (U N I 8208B) maximum load kg.	Longitudinal 15	Transverse 15
Dimension stability at high temperature (U N I 8208)	Longitudinal - 0,20%	Transverse + 0,10 %
Thickness		4mm, 5mm
Roll size (m)		1 x 10

IMPORTANT NOTE

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst **a.b.e.® Construction Chemicals** endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot - because **a.b.e.®** has no direct or continuous control over where and how **a.b.e.®** products are applied - accept any liability either directly or indirectly arising from the use of **a.b.e.®** products, whether or not in accordance with any advice, specification, recommendation or information given by the company.

FURTHER INFORMATION

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements. **a.b.e.® Construction Chemicals** has a wealth of technical and practical experience built up over years in the company's pursuit of excellence in building and construction technology.

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 Registration Number: 1982/005383/07
 101 Main Reef Road, Boksburg North, 1459
 PO Box 5100, Boksburg North, 1461

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 is a CHRYSO Group Company

