



a.b.e.[®] Construction Chemicals Index Defend antiroot P Polyester

POLYMER – BITUMEN ELASTOMERIC WATERPROOFING MEMBRANE WITH AN ANTI-ROOT ADDITIVE AND REINFORCED WITH A SPUN BONDED POLYESTER FABRIC. THIS MEMBRANE HAS BEEN SPECIFICALLY DEVELOPED FOR WATERPROOFING IN BURIED SITUATIONS

DESCRIPTION

Index Defend anti-root P is a rot resistant waterproofing membrane. The anti-root properties of the membrane are achieved by adding **Phenoxi Fatty Acid Ester**, a specific anti-root agent, to the polymer bitumen mix.

Index Defend anti-root P when installed provides a continuous barrier against root penetration even at the overlaps this being due to the fact that the additive is dispersed throughout the matrix. Other materials that rely on a film or metal foil are vulnerable at the overlaps where the matrix is unprotected.

Index Defend anti-root P is flexible, has good elongation characteristics and is rot resistant. The root inhibitor will not wash out or leach, nor is it affected by heat generated during the torching operation. The use of the **Phenoxi Fatty Acid Ester** is a product from more than 20 years of German research in the waterproofing field.

The spun bonded polyester reinforcement provides superior puncture resistance characteristics in the membrane.

The matrix in **Index Defend anti-root P** is manufactured from distilled bitumen and modified by the addition of atactic polypropylene and other selected elastomers resulting in a product that is resistant to chemical aggression, humic acids and fertilizers.

Index Defend anti-root P is always used as the final layer in direct contact with soil when waterproofing gardens, foundations, underground garages, tunnels covered with soil, road structures and under gravel. When waterproofing roof gardens, for instance, it is used as the last layer of a two layer system; the first layer being a 3mm, polyester reinforced membrane and the second layer being **Index Defend anti-root P** which will be placed astride the laps of the previous sheet and be fully flame bonded.

For guidance on application methods consult the relevant '*Technical Specification*' leaflets and '*Guide to Application of Index Membranes*'. When laying the membrane, care should always be taken to ensure that the side with the polyethylene film is underneath and the talc surface is uppermost.

When applying the membrane, flame will melt the Flamina film on the underside of the membrane plus a thin layer of bitumen. When this has taken place, the membrane should be unrolled and laid at the same time. Side laps should always be 100mm with end laps of 150mm. Welding of laps must always be carried out using a gas torch.

Embossing

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

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

Talc treatment

The talc treatment on the upper side is carried out using a method which evenly spreads the talc in a special pattern avoiding excess talc or missed areas. This method allows a quick unrolling of the roll and a surface which is pleasant to the eye.

WARNING

Tolerance on nominal value according to UEATC Directives January 1984 for polymer bitumen membranes.

TECHNICAL CHARACTERISTICS	T	Index Defend antiroot P
Thickness (EN 1849-1)	±0,2	4mm
Roll size (EN 1848-1)		1x10m
Reinforcement		"Non-woven" Spunbond polyester fabric
Watertightness (EN 1928-B method)		60 kPa
Maximum tensile force Long./Trasv. (EN12311-1)	-20%	600/400N/50mm
Elongation (EN 12311-1)	-15 V.A.	35/40%
Resistance to impact (EN 12691 A method)		1.250 mm
Resistance to static loading (EN 12730)		15 kg
Dimension stability (1107-1)		NPD
Flexibility to low temp. (EN 1109)		-10°C
Flow resistance at elevated temperature (EN 1110)		120°C
Resistance to root (EN 13948)		Test passed
Reaction to fire class (EN 13501-1)		Euroclas F
External fire performance (EN13501-5)		F root
Shear Resistance (EN 12317-1)	-20%	500/300N/50mm

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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