



LOTUS ANTIROOT

Kind of product

LOTUS ANTIROOT is a root resistant grade membrane produced by co-extruding an elasto-plastomeric bitumen-polymer compound with special long-lasting root resistant chemical additives (esterified fatty acids and oxyphenols) with a non-woven continuous thread located in the middle of the membranes and acting in total synergy with it.

With these special chemical additives, LOTUS ANTIROOT pass the most commonly used plant root resistance test with no root penetration or damage to the product.

The membranes are supplied in rolls, each accompanied by a Quality Control Certificate.

The comply with CE marking requirements where applicable and contain no asbestos, tar or other dangerous substances.

Fields of use ⁽¹⁾

The membrane LOTUS ANTIROOT is ideal for waterproofing applications involving contact with soil and plants, including roof gardens, underground parking, garages and planters.

Membrane suitability for applications where CE marking is required is detailed in the below table.

For detailed documentation and guidance regarding product application consult Imper Italia S.p.A. Technical Services.

INTEND USE MEMBRANES	ROOFS (EN 13707)						UNDER TILES (EN 13859-1)	FOUNDATIONS (EN 13969)
	EXPOSED			ROOF GARDEN	UNDER HEAVY PROTECTION			
	Single layer	Multi layer			Anti roots	Single layer		
		Top	Intermediate					
LOTUS ANTIROOT				▲				

(1) In conformity with the applicable norms and the Guide Lines AISPEC-MBP

Methods of application

The application methods represent a decisive factor which characterizes the performances of the waterproofing membrane. We recommend to clean the support thoroughly and to treat it with an approved primer (applied by long-handled brush, roll or spray) with a consumption of $0,2 \div 0,3 \text{ l/m}^2$, to be adjusted depending on the porosity degree of the support itself. The membrane will be applied by means of a propane gas flame; a special care should be given to the execution of the overlaps between one roll and another, which will always have to be staggered: the side laps will have to be 8 to 10 cm wide, the end laps 12 ÷ 15 cm. To get a correct and complete documentation and to find all the more appropriate solutions for each circumstance we suggest you to contact the Imper Italia S.p.A. Technical Services, which are in any case at your full disposal for the examination of particular problems and to give all the necessary assistance for the use of the product.

TECHNICAL CHARACTERISTICS				
Characteristics	EN Norms	Units	Tolerances (2)	LOTUS ANTIROOT
Rolls size	1848-1	m	≥	10x1 (-1%)
Thickness	1849-1	mm	±5 %	4
Mass per unit area	1849-1	Kg/m ²	±10 %	-
Watertightnes	1928-B	kPa	≥	60
Flexibility at low temperature	1109	°C	≤	-5
Flow resistance at elevated temperature	1110	°C	≥	110
Tensile properties: maximum tensile force	12311-1	N/5cm	±20%	450/350
Tensile properties: elongation	12311-1	%	± 15 ⁽³⁾	40/40
Dimensional stability	1107-1	%	≤	0.25/0.1
Resistance to static loading	12730-B	Kα	≥	15
Resistance to impact	12691-B	mm	≥	700
Resistance to tearing (nail shank)	12310 -1	N	+30%	150/150
Peel resistance of the joint	12316 -1	N/5cm	±20 N	NPD ⁽⁵⁾
Shear resistance of the joint ⁽⁴⁾	12317-1	N/5cm	±20%	<i>break outside of the joints</i>
Artificial ageing by long term exposure to elevated temperature (EN 1296)				
Flexibility at low temperature	1296-1109	°C	+15°C	NPD ⁽⁵⁾
Flow resistance at elevated temperature	1296-1110	°C	-10°C	100
Artificial ageing by long term exposure to UV	1297	-	-	NPD ⁽⁵⁾
Watertightness	1296-1928	kPa		60
Chemical resistance	-	-	-	NPD ⁽⁵⁾
Tensile properties: maximum tensile force	12311-1	N/5cm	±20%	NPD ⁽⁵⁾
Tensile properties: elongation L/T	12311-1	%	±15 ⁽³⁾	NPD ⁽⁵⁾
Water vapour transmission properties	1931	u	≥	20.000
Resistance to root penetration	LG Aispec		-	Pass the test
External fire exposure	13501-5	EC ⁽⁶⁾	-	Froof
Reaction to fire	13501-1	EC ⁽⁶⁾	-	F

(2) In conformity with the applicable norms and the Guide Lines AISPEC-MBP

(5) "No performance determined" as not relevant for intended use

(3) ± 2 for glass fibre reinforcement

(6) European classification

(4) Declared value or break outside of the joints

SP-LTAR/I.0

The data stated to standards effective on the printing date. Our Company has the right to modify them without any previous notice. - Les données indiquées sont référées aux standards en vigueur à la date d'impression. Notre Société se réserve le droit de les modifier sans aucun avis préalable. - Die hier erwähnten Angaben beziehen sich auf die Standardwerte die am Druckdatum gültig waren. Unsere Firma behält sich das Recht vor, sie fristlos zu modifizieren.



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... and no water penetrates

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