



COLD FLEXIBILITY
-10 °C

ANTIRADICE PE

ANTIRADICE PE is a plastomeric waterproofing membrane with excellent performance indicated for use as a barrier against puncture by plant roots.



*Guaranteed Quality
UNI EN ISO 9001:2008 and
UNI EN ISO 14001:2004*



All year membranes



*Product in compliance
with European Standards*



*Easily flamed non-stick
polyethylene film*



*Polyglass is a member of
Green Building Council*



Certified product



*Bituminous membrane
polymeric matrix ageing control.*

PROFESSIONAL LINE



Adds value!



ANTIRADICE PE

TECHNICAL DESCRIPTION

ANTIRADICE PE is a plastomeric waterproofing membranes with outstanding performance made of a distilled bitumen-based compound modified with POLYPROPYLENE and continuous thread non-woven polyester fabric with elevated basic weight reinforced and stabilized by longitudinal glass fibre. In addition to being rotproof, this reinforcement gives the membrane excellent mechanical characteristics in terms of elongation and tensile strength, resistance to puncture, and dimensional stability. The compound has been enriched with PREVENTOL® B2 by LANXESS, a product that poses a chemical barrier against the membrane's puncture by roots, to ensure an impermeable seal. The special type of compound in **ANTIRADICE PE** ensures the membrane remarkable characteristics of low temperature flexibility, and the avant-garde technology with which this membrane is made guarantees the product's superior quality.

DESTINATION

PRODUCT	SINGLE LAYER		MULTI-LAYER				ROOT BARRIER	VAPOUR BARRIER	FOUNDATIONS		UNDER ROOFING TILES
			F.L.		U.L.				R.D.	P.	
	E.	U.H.P.	E.	U.H.P.	E.	U.H.P.					
4 mm				•		•	•		•		

F.L.: Finishing Layer - U.L.: Underlying Layer - R.D.: Rising Damp - P.: Pitch - E.: Exposed - U.H.P.: Under Heavy Protection

ANTIRADICE PE is a membrane with special characteristics formulated to work as a **barrier against puncture by roots**. Waterproofing systems under **heavy protection** can be laid in single layers (whenever permitted by product) or multiple layers with minimum thicknesses of 7 mm (4+3 mm).

APPLICATION: INSTRUCTIONS AND RECOMMENDATIONS

ANTIRADICE PE can be provided with its upperside covered with a talc, sand, or a non woven polypropylene fabric. Its underside is protected and faced with **POLYFLAM EasyTorch** (reduced printed area increases product adhesion), the special non-stick polyethylene film to be flamed during laying. Support surfaces must be dry, clean, and sufficiently smooth and level. Application with complete adhesion is made by light flaming with propane gas. Laying is quick and easy. Before setting up the rooftop garden, we recommend providing the waterproofing layer with protection against all forms of mechanical damage by applying a coat of bituminous primer as an adhesion promoter whenever the membrane is applied over cement surfaces.



Talc



Sand



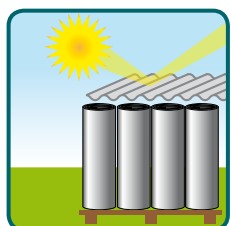
Non woven polypropylene fabric



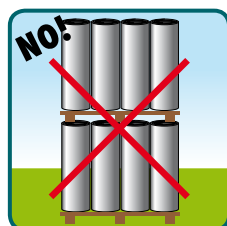
POLYFLAM *EasyTorch*

STOCKING

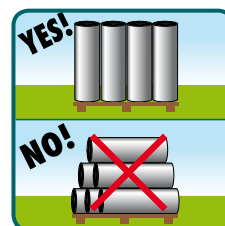
Keep the products packed in the carton box in a dry place, away from direct sunlight. Do not place the pallets, one on top of another and the rolls must always be stocked in a vertical position. The contact with solvents and organic liquids may damage the product. Avoid application if the temperature is excessively low or high, avoid stamping (shoes with crampons, small objects or sharp edges). For further information contact Polyglass SpA Technical Office.



Keep out of direct sunlight.



Avoid stocking pallets without evenly distributing the load.



Keep the rolls standing.



Absolutely avoid puncturing the product.

TECHNICAL SPECIFICATIONS

TEST METHOD	TECHNICAL CHARACTERISTICS	UNIT OF MEASURE	NOMINAL VALUES	NOMINAL VALUES
EN 1848-1	LENGTH	m	10 (-1%)	
EN 1848-1	WIDTH	m	1 (-1%)	
EN 1848-1	STRAIGHTNESS	mm/10 m	Exceeds	
EN 1849-1	THICKNESS	mm	4 (-0,2)	
EN 1849-1	MASS PER UNIT AREA	kg/m ²	NPD	
EN 1928-B	WATERTIGHTNESS	kPa	Exceeds	
EN 1928-B EN 1296	WATERTIGHTNESS AGAINST ARTIFICIAL AGEING	kPa	Exceeds	
EN 1928-B EN 1847	WATERTIGHTNESS AGAINST CHEMICAL	kPa	Exceeds	
EN 13897	WATERTIGHTNESS AFTER STRETCHING	%	-	
EN 13501-5	EXTERNAL FIRE PERFORMANCE	-	F _{Roof}	
EN 13501-1	REACTION TO FIRE	Euroclass	F	
EN 12316	PEEL RESISTANCE	N/50 mm	-	
EN 12317	SHEAR RESISTANCE	N/50 mm	500/400 (-20%)	
	TENSILE PROPERTIES			
	MAXIMUM LOAD AT BREAK			
EN 12311-1	Longitudinal	N/50 mm	600 (-20%)	
	Transversal	N/50 mm	500 (-20%)	
	ELONGATION AT BREAK			
	Longitudinal	%	35 (-15)	
	Transversal	%	35 (-15)	
EN 12691-A	RESISTANCE TO IMPACT	mm	≥900	
EN 12730-A	RESISTANCE TO STATIC LOADING	kg	≥15	
	RESISTANCE TO TEARING			
EN 12310-1	Longitudinal	N	150 (-30%)	
	Transversal	N	150 (-30%)	
EN 13948	RESISTANCE TO ROOT PENETRATION	-	Exceeds	
EN 1107-1	DIMENSIONAL STABILITY	%	≤0,3	
EN 1108	FORM STABILITY UNDER CYCLIC TEMPERATURE CHANGE	%	-	
EN 1109	COLD FLEXIBILITY	°C	≤-10	
EN 1110	FLOW RESISTANCE AT ELEVATED TEMPERATURE	°C	≥110	
EN 1110 EN 1296	ARTIFICIAL AGEING BEHAVIOUR (FLOW RESISTANCE)	°C	-	
EN 12039	ADHESION OF GRANULES	%	-	
EN 1931	WATER VAPOUR PROPERTIES	μ	20000	
EN 1850-1	VISIBLE DEFECTS	-	Absent	

ANTIRADICE PE

Thickness and weight parameters are indicative only for Italian market.

In compliance with EN 13707 products standards (layers for roofing) and EN 13969 TYPE T products standards (layers for foundations).

Considering the various situations of use, the numerous types of support surfaces and the possibilities for use inside COMPLEX WATERPROOF LAYERING, Polyglass SpA cannot assume any liability for damages derived from the products in terms of function or aesthetics.



FLAT ROOF WITH
PEDESTRIAN ACCESS



FLAT ROOF WITH
LIMITED ACCESS



PROFILED
METAL DECKS



INDUSTRIAL
SAWTOOTH ROOFS



CURVED ROOFS



PITCHED ROOFS



FOUNDATIONS



UNDERGROUND
CAR PARK



RAISED
CAR PARK



ROOF
GARDENS



BRIDGES
AND VIADUCTS



RESERVOIRS
AND CANALS



GALLERY
AND TUNNEL



RENEWAL WATERPROOFING
CONVERING ONLY
RELINING WITH INSULATING
MATERIAL
SPECIAL RE-ROOFING WORK



DETAILS



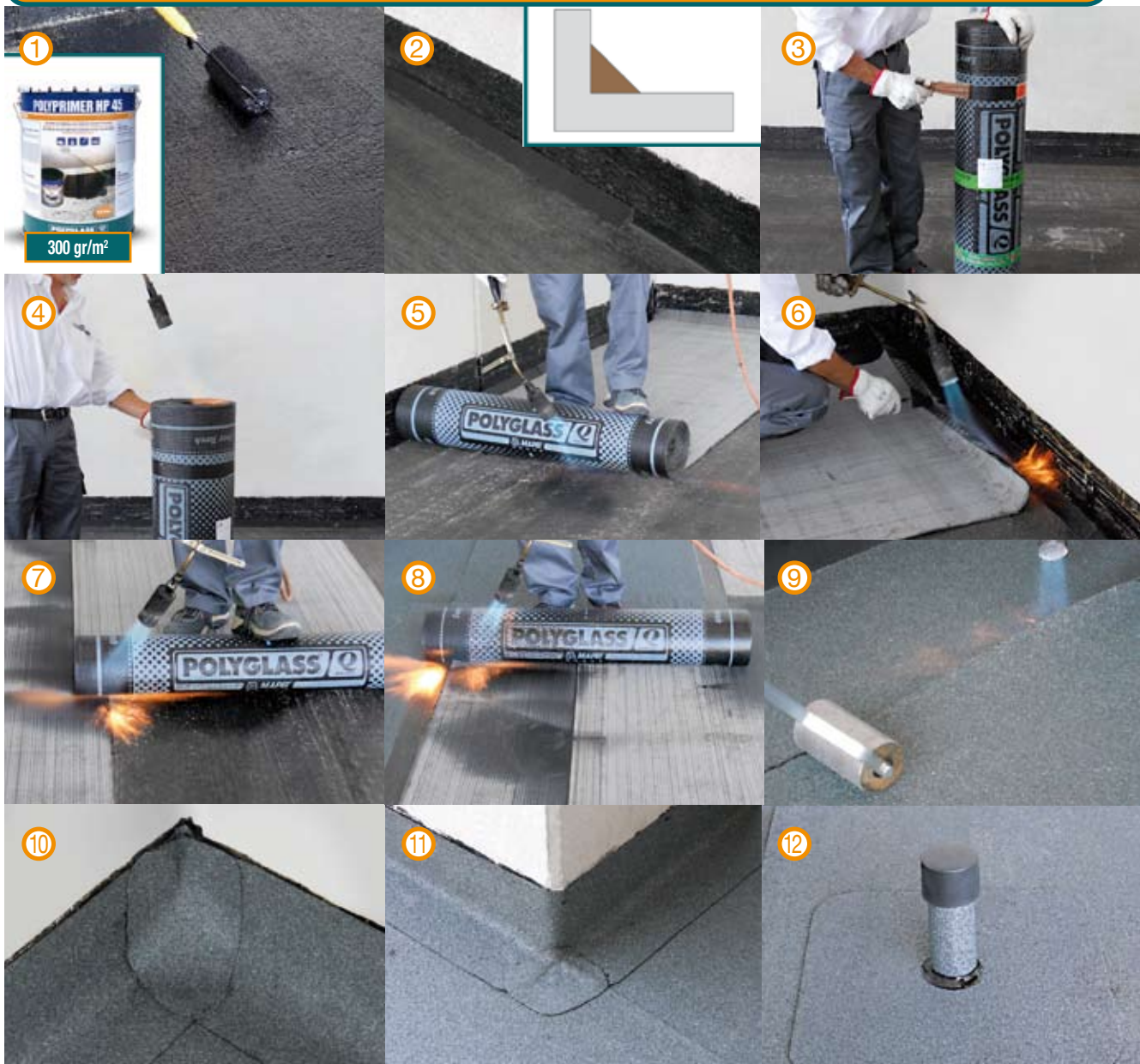
SPECIAL ROOFS

DIMENSIONS – PACKAGING

PRODUCT	THICKNESS mm	WEIGHT kg/m ²	DIMENSIONS m
ANTIRADICE PE	4	-	1x10

WATERPROOFING MEMBRANES

APPLICATION METHOD



- ① Treat the area to be waterproofed with bituminous primer (POLYPRIMER HP 45 Professional).
- ② Position the "Bordangolo" near the horizontal-vertical joint.
- ③ Completely strip away the product identification tape.
- ④ In the colder months, we recommend heating up the roll of membrane before applying it.
- ⑤ Position and apply the sheet by flaming its bottom surface.
- ⑥ Pull the sheet up to a certain height against vertical surfaces.
- ⑦ Apply the second sheet with adequate overlapping.
- ⑧ Lay the second layer by overlapping. Do not cross the sheets.
- ⑨ Roll the overlapping areas using the special pressing roller.
- ⑩ Example of internal corner.
- ⑪ Example of external corner.
- ⑫ Example of vent pipe.

POLYGLASS SPA reserves the right to make any and all modifications required for the ongoing perfection of the product without notice.

WATERPROOFING MATERIALS AND INSULATING SYSTEMS

POLYGLASS Q

MAPEI GROUP

Adds value!

POLYGLASS SPA

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