



COLD FLEXIBILITY

**-5 °C**

## POLYBOND P<sup>®</sup> POLYBOND P<sup>®</sup> mineral

**POLYBOND P<sup>®</sup> and POLYBOND P<sup>®</sup> MINERAL are plastomeric waterproofing membranes with outstanding performance indicated for the waterproofing of all structures.**



*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*



*Manufacturers of  
Bitumen Distillate  
Polymer Membranes*



*Bituminous membrane  
polymeric matrix  
ageing control*

ROOFING AND WATERPROOFING SYSTEMS

**POLYGLASS<sup>®</sup> / Q**



*Adds value!*

# POLYBOND P® POLYBOND P® mineral



## TECHNICAL DESCRIPTION

**POLYBOND P®** and **POLYBOND P® MINERAL** are plastomeric waterproofing membranes with good quality, made of a distilled bitumen-based compound modified with POLYPROPYLENE and non-woven polyester fabric reinforced and stabilized by longitudinal glass fibre. The reinforcement fabric offers good mechanical characteristics and good elongation at break. The compound ensures remarkable characteristics of low temperature flexibility. The sophisticated technology with which these membranes is made guarantees the product's quality.

## DESTINATION

PRODUCT	SINGLE LAYER		MULTI-LAYER				ROOT BARRIER	VAPOUR BARRIER	FOUNDATIONS		UNDER ROOFING TILE
	E.	U.H.P.	F.L.		U.L.				R.D.	P.	
			E.	U.H.P.	E.	U.H.P.					
3 mm				•	•	•					
4 mm			•	•	•	•			•		
5 mm			•	•	•	•			•		
4 mm Mineral			•								
4 kg Mineral			•								
4,5 kg Mineral			•								
5 kg Mineral			•								

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

**POLYBOND P®** and **POLYBOND P® MINERAL** membranes are suited for the waterproofing of all traditional, metal, and prefabricated civil and industrial structures. 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

**POLYBOND P®** and **POLYBOND P® MINERAL** 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**, the special non-stick polyethylene film to be flamed during laying. In the MINERAL version, the upperside is protected by an even layer of coloured or natural mineral slate chips. Support surfaces must be dry, clean, and sufficiently smooth and level. Application is made by light flaming with propane gas. Laying is quick and easy. We recommend slightly heating the roll of membrane prior to laying in winter.



Talc



Sand



A non woven polypropylene fabric

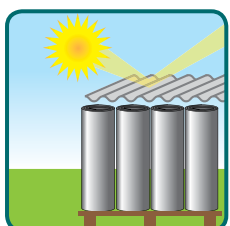


POLYFLAM *EasyTorch*

## STOCKING

Keep the products 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).

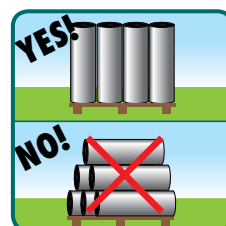
For further information contact Polyglass SpA Technical Office.



Keep out of direct sunlight



Avoid stocking pallets without evenly distributing the load



Keep the rolls standing



Absolutely avoid puncturing the product.

Rev. 1-18

# TECHNICAL SPECIFICATIONS

TEST METHOD	TECHNICAL CHARACTERISTICS	UNIT OF MEASURE	NOMINAL VALUES	NOMINAL VALUES
EN 1848-1	LENGTH	m	(10 -1%)	(10 -1%)
EN 1848-1	WIDTH	m	(1 -1%)	(1 -1%)
EN 1848-1	STRAIGHTNESS	mm/10 m	Exceeds	Exceeds
EN 1849-1	THICKNESS	mm	4 (±0,4)	NPD
EN 1849-1	WEIGHT PER UNIT AREA	kg/m <sup>2</sup>	NPD	4 (±10%)
EN 1928-B	WATERPROOFING	kPa	Exceeds	Exceeds
EN 1928-B	WATER TIGHTNESS	kPa	Exceeds	Exceeds
EN 1296	AFTER ARTIFICIAL AGEING	kPa	Exceeds	Exceeds
EN 1928-B	WATER TIGHTNESS AFTER EXPOSURE TO CHEMICALS	kPa	Exceeds	Exceeds
EN 1847				
EN 13897	WATER TIGHTNESS AFTER ELONGATION AT LOW TEMPERATURE	%	NPD	NPD
EN 13501-5	FIRE PROPAGATION REACTION	-	NPD	NPD
EN 13501-1	REACTION TO FIRE	Euroclass	E	E
EN 12316	RESISTANCE TO PEELING OF JOINTS	N/50 mm	-	-
EN 12317	TENSILE STRENGTH OF JOINTS	N/50 mm	-	-
	TENSILE PROPERTIES			
	MAXIMUM LOAD AT BREAK			
EN 12311-1	Longitudinal	N/50 mm	750 (-20%)	750 (-20%)
	Transversal	N/50 mm	450 (-20%)	450 (-20%)
	ELONGATION AT BREAK			
	Longitudinal	%	40 (-15)	40 (-15)
	Transversal	%	40 (-15)	40 (-15)
EN 12691-A	IMPACT STRENGTH	mm	≥700	≥700
EN 12730-A	STATIC LOAD STRENGTH	kg	≥10	≥10
	TEAR RESISTANCE			
EN 12310-1	Longitudinal	N	150 (-30%)	150 (-30%)
	Transversal	N	150 (-30%)	150 (-30%)
EN 1107-1	DIMENSIONAL STABILITY	%	≤0,3	≤0,3
EN 1108	STABILITY OF FORM AFTER CYCLIC TEMPERATURE CHANGE	mm	-	-
EN 1109	COLD FLEXIBILITY	°C	≤-5	≤-5
EN 1110	SHEAR STRENGTH AT HIGH TEMPERATURE	°C	≥110	≥110
EN 1110	SHEAR STRENGTH AFTER THERMAL AGEING	°C	≥100	≥100
EN 1296				
EN 1297	AGEING BY PROLONGED EXPOSURE TO COMBINED UV RADIATION, HIGH TEMPERATURES, AND WATER	-	Exceeds	-
EN 12039	GRANULATE ADHESION	%	-	≤30
EN 1931	WATER VAPOUR TRANSMISSION PROPERTIES μ	-	20000	20000
EN 1850-1	VISIBLE DEFECTS	-	Absent	Absent

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

## DIMENSIONS - PACKAGING

PRODUCT	THICKNESS mm	WEIGHT kg/m <sup>2</sup>	DIMENSIONS m
POLYBOND P®	3	-	1x10
POLYBOND P®	4	-	1x10
POLYBOND P®	5	-	1x8
POLYBOND P® MINERAL (Grey)	4	-	1x10
POLYBOND P® MINERAL (Other colours)	4	-	1x10
POLYBOND P® MINERAL (Grey)	-	4	1x10
POLYBOND P® MINERAL (Other colours)	-	4	1x10
POLYBOND P® MINERAL (Grey)	-	4,5	1x10
POLYBOND P® MINERAL (Other colours)	-	4,5	1x10
POLYBOND P® MINERAL (Grey)	-	5	1x10
POLYBOND P® MINERAL (Other colours)	-	5	1x10

## AVAILABLE COLOURS

Upperside protected with coloured mineral slate chips:



Grey

Green

Red

White

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 product's results in terms of function or aesthetics. Rev. 1/18



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 CONVERGING ONLY  
RELINING WITH INSULATING MATERIAL  
SPECIAL RE-ROOFING WORK



DETAILS

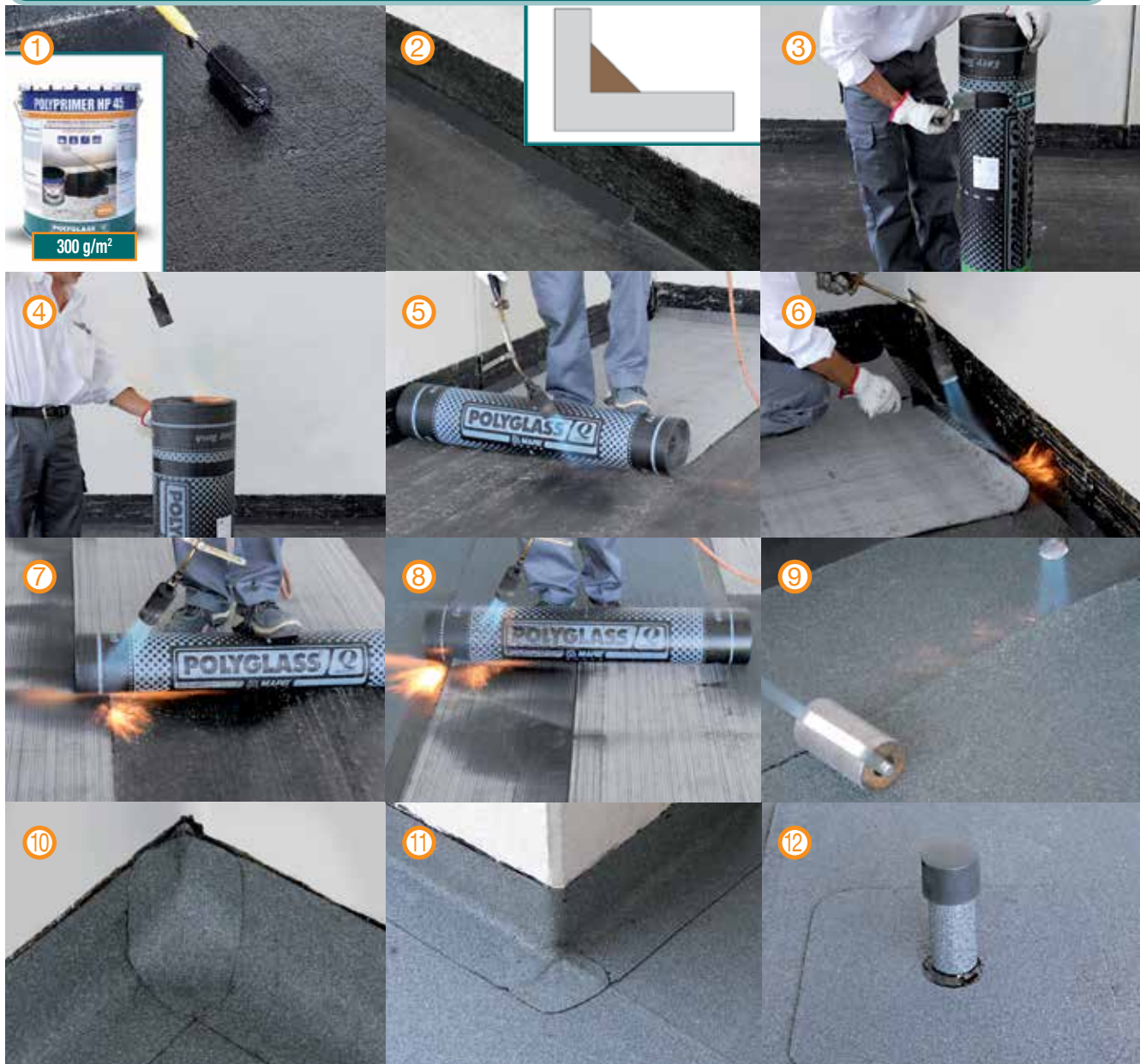


SPECIAL ROOFS

Rev. 1-18

# WATERPROOFING MEMBRANES

## APPLICATION METHOD



- ① Treat the area to be waterproofed with bituminous primer (POLYPRIMER HP 45 Professional or IDROPRIMER).
- 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.

Rev. 1-18

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*Adds value!*

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