



COLD FLEXIBILITY

-15 °C

POLYBOND POLYBOND mineral

POLYBOND and POLYBOND MINERAL are plastomeric waterproofing membranes with outstanding performance indicated for civil and industrial waterproofing.



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



All year membranes



*Product in compliance
with European Standards*



*Lateral and endlap
sealing strips*



*Polyglass is a member of
Green Building Council*



*Easily flamed non-stick
polyethylene film*



*Bituminous membrane
polymeric matrix ageing control.*

PROFESSIONAL LINE

WATERPROOFING MATERIALS AND INSULATING SYSTEMS

POLYGLASS®



Adds value!



TECHNICAL DESCRIPTION

POLYBOND and **POLYBOND MINERAL** are plastomeric waterproofing membranes with outstanding performance, made of a latest generation 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. The product's general characteristics guarantee excellent mechanical properties in terms of elongation and tensile strength, resistance to puncture, and dimensional stability. The special type of compound ensures remarkable characteristics of low temperature flexibility. The sophisticated technology with which these membranes are made guarantees the product's quality, stability, and durability.

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.							
3 mm					•	•							
4 mm			•	•	•	•			•				
4 kg Mineral			•										
4 mm + Mineral			•										

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

POLYBOND and **POLYBOND MINERAL** are versatile membranes provided with good mechanical characteristics and elevated dimensional stability that make them particularly suited for the civil and industrial waterproofing of all structures (traditional, metal, prefabricated) in which these qualities are required. 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 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. In the MINERAL version, the upperside is protected by an even layer of colored or natural mineral slate chips and features (**BYSTOP** patented) lateral and endlap sealing strip for easy overlapping. 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.



Talc



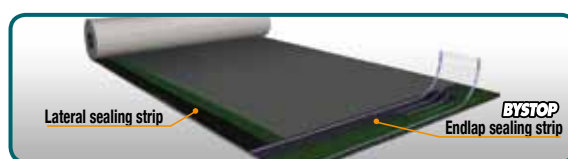
Sand



Non woven polypropylene fabric



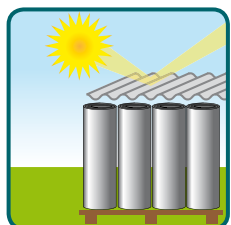
POLYFLAM EasyTorch



BYSTOP (endlap)

STOCKING

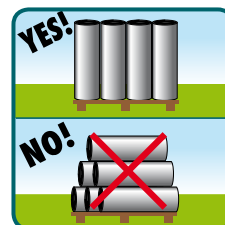
Keep the products packed in the carton box in a dry place, away from direct sunlight. Do not place the pallets, one on top of another and the rolls must always be stocked in a vertical position. The contact with solvents and organic liquids may damage the product. Avoid application if the temperature 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%)	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 (-0,2)	NPD
EN 1849-1	MASS PER UNIT AREA	kg/m ²		NPD	4 (±10%)
EN 1928-B	WATERTIGHTNESS	kPa		Exceeds	Exceeds
EN 1928-B	WATERTIGHTNESS AGAINST ARTIFICIAL AGEING	kPa		Exceeds	Exceeds
EN 1296	ARTIFICIAL AGEING				
EN 1928-B	WATERTIGHTNESS AGAINST CHEMICAL	kPa		Exceeds	Exceeds
EN 1847	AGAINST CHEMICAL				
EN 13897	WATERTIGHTNESS AFTER STRETCHING	kPa		-	-
EN 13501-5	EXTERNAL FIRE PERFORMANCE	-		F _{Roof}	F _{Roof}
EN 13501-1	REACTION TO FIRE	Euroclass		F	F
EN 12316	PEEL RESISTANCE	N/50 mm		NPD	NPD
EN 12317	SHEAR RESISTANCE	N/50 mm		NPD	NPD
EN 12311-1	TENSILE PROPERTIES				
	MAXIMUM LOAD AT BREAK				
	Longitudinal	N/50 mm	POLYBOND	600 (-20%)	600 (-20%)
	Transversal	N/50 mm		500 (-20%)	500 (-20%)
	ELONGATION AT BREAK				
	Longitudinal	%		35 (-15)	35 (-15)
	Transversal	%		35 (-15)	35 (-15)
EN 12691-A	RESISTANCE TO IMPACT	mm		≥900	≥900
EN 12730-A	RESISTANCE TO STATIC LOADING	kg		≥15	≥15
EN 12310-1	RESISTANCE TO TEARING				
	Longitudinal	N		150 (-30%)	150 (-30%)
	Transversal	N		150 (-30%)	150 (-30%)
EN 1107-1	DIMENSIONAL STABILITY	%		≤0,3	≤0,3
EN 1108	FORM STABILITY UNDER CYCLIC TEMPERATURE CHANGE	%		-	-
EN 1109	COLD FLEXIBILITY	°C		≤-15	≤-15
EN 1110	FLOW RESISTANCE AT ELEVATED TEMPERATURE	°C		≥110	≥110
EN 1110	ARTIFICIAL AGEING BEHAVIOUR (FLOW RESISTANCE)	°C		≥100	≥100
EN 1296	ARTIFICIAL AGEING BEHAVIOUR (VISIBLE DEFECTS)	-		Exceeds	-
EN 1297	ARTIFICIAL AGEING BEHAVIOUR (VISIBLE DEFECTS)	-		Exceeds	-
EN 12039	ADHESION OF GRANULES	%		-	≤30
EN 1931	WATER VAPOUR PROPERTIES	μ		20000	20000
EN 1850-1	VISIBLE DEFECTS	-		Absent	Absent

Thickness and weight parameters are indicative only for Italian market.

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

DIMENSIONS – PACKAGING

PRODUCT	THICKNESS mm	WEIGHT kg/m ²	DIMENSIONS m
POLYBOND	3	-	1x10
POLYBOND	4	-	1x10
POLYBOND MINERAL Grey	-	4	1x10
POLYBOND MINERAL Other colours	-	4	1x10
POLYBOND MINERAL Grey	-	4,5	1x10
POLYBOND MINERAL Other colours	-	4,5	1x10

AVAILABLE COLOURS



Grey



Green



Red



White



Brown

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.



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



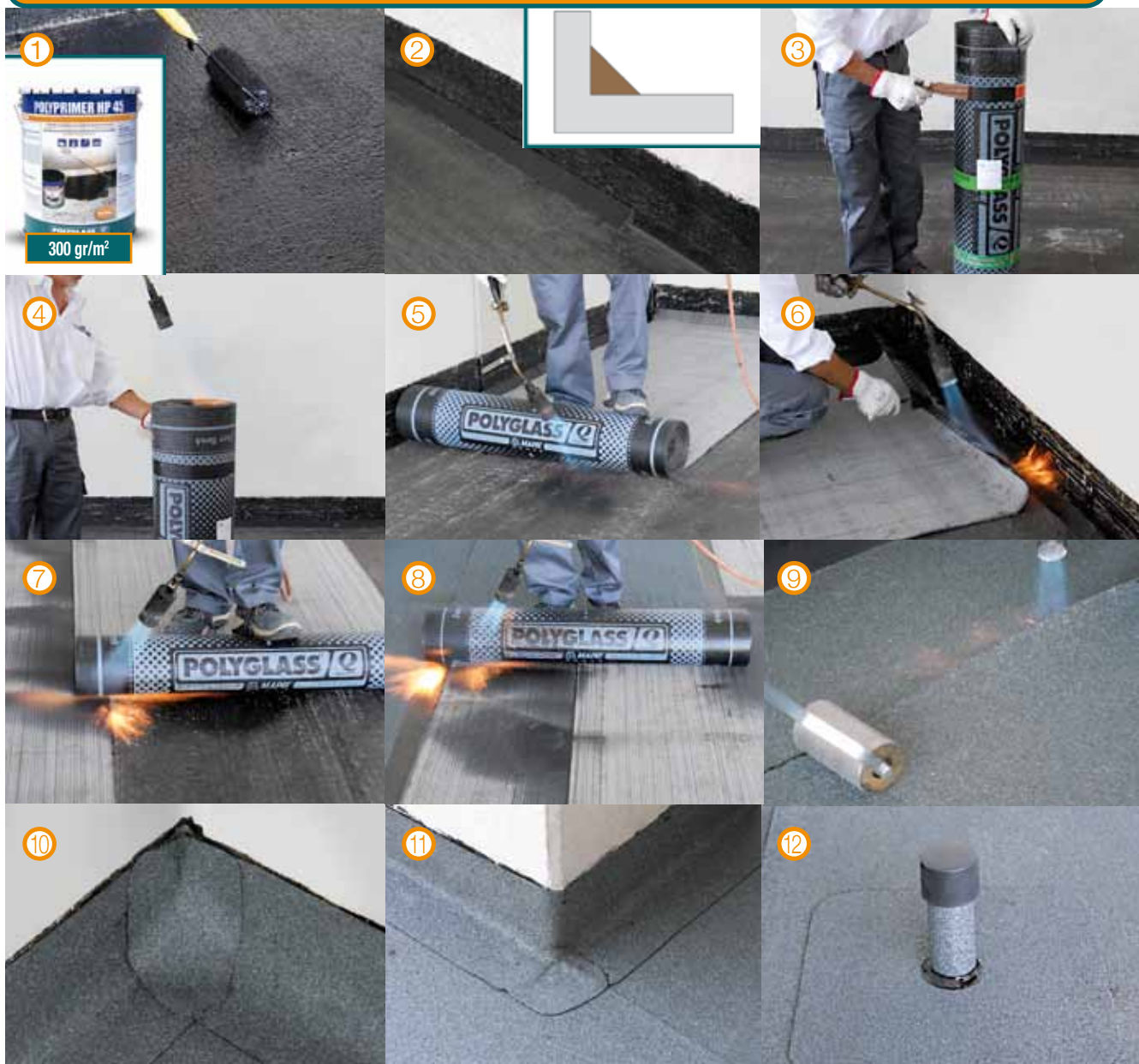
DETAILS



SPECIAL ROOFS

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

Registered Office - Viale Jenner, 4 - 20159 MILANO

Head Office - Via dell'Artigianato, 34 - 31047 Ponte di Piave (TV) - Italy - Tel. +39 04227547 - Fax +39 0422854118

www.polyglass.com - info@polyglass.it