



COLD FLEXIBILITY
-25 °C

FUTURA RS 4 AF mineral

FUTURA RS4 AF MINERAL is a plastomeric waterproofing membrane with outstanding performance indicated for surfaces subject to extreme stress.

	<i>Guaranteed Quality</i> UNI EN ISO 9001:2008 and UNI EN ISO 14001:2004		<i>All year membranes</i>
	<i>Product in compliance with European Standards</i>		<i>Lateral and endlap sealing strips</i>
	<i>Polyglass is a member of Green Building Council</i>		<i>Easily flamed non-stick polyethylene film</i>
	<i>Bituminous membrane polymeric matrix ageing control</i>		<i>SINTEF Certification B_{ROOF} (t2)</i>

PROFESSIONAL LINE

WATERPROOFING MATERIALS AND INSULATING SYSTEMS

POLYGLASS® 



Adds value!

FUTURA RS 4 AF mineral



TECHNICAL DESCRIPTION

FUTURA RS 4 AF MINERAL is a plastomeric waterproofing membranes with outstanding performance, made of a latest generation distilled bitumen-based compound modified with POLYPROPYLENE (APP) and POLYOLEFIN (APAO) and continuous thread non-woven polyester fabric with elevated basic weight reinforced and stabilized by longitudinal glass fibre. The special type of compound and the elevated mechanical characteristics of the fabric (excellent elongation, remarkable tensile strength) suit these membranes to the heaviest use. The compound's special formula grants unique flexibility also at low temperatures (cold flexibility at -25 °C).

The innovative technology with which these membranes are made offers an additional guarantee of 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.					
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

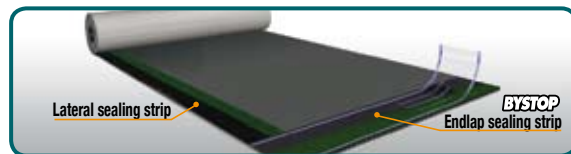
FUTURA RS 4 AF MINERAL is particularly indicated for use on the surfaces subjected to the heaviest stress because their plasticity ensures perfect support surface adhesion. Their excellent mechanical and dimensional stability characteristics indicate use in civil and industrial waterproofing with all structures (traditional, metal, prefabricated) in which these qualities are required. **FUTURA RS 4 AF MINERAL** has been certified to external fire performance in compliance to B_{ROOF}(t2) ENV 1187 Test 2 valid on every substrate with density $\geq 13,2 \text{ kg/m}^3$ and all slopes.

APPLICATION: INSTRUCTIONS AND RECOMMENDATIONS

FUTURA RS 4 AF MINERAL can be provided with upperside 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.



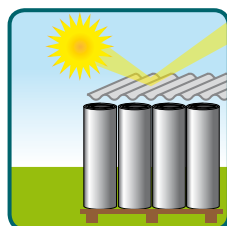
POLYFLAM *EasyTorch*



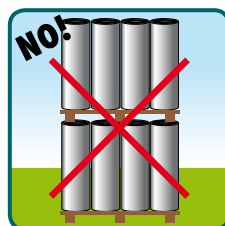
BYSTOP (endlap)

STOCKING

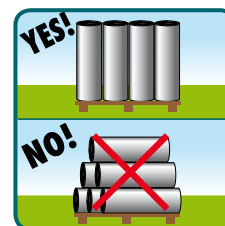
Keep the products packed in the carton box in a dry place, away from direct sunlight. Do not place the pallets, one on top of another and the rolls must always be stocked in a vertical position. The contact with solvents and organic liquids may damage the product. Avoid application if the temperature 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	(8 -1%)	
EN 1848-1	WIDTH	m	(1 -1%)	
EN 1848-1	STRAIGHTNESS	mm/10 m	Exceeds	
EN 1849-1	THICKNESS	mm	NPD	
EN 1849-1	MASS PER UNIT AREA	kg/m ²	5 (±10%)	
EN 1928-B	WATERTIGHTNESS	kPa	Exceeds	
EN 13897	WATERTIGHTNESS AFTER STRETCHING	%	Exceeds (10% a -10 °C)	
EN 13501-5	EXTERNAL FIRE PERFORMANCE	-	Broof (t2)	
EN 13501-1	REACTION TO FIRE	Euroclass	F	
EN 12316	PEEL RESISTANCE	N/50 mm	≥50	
EN 12317	SHEAR RESISTANCE	N/50 mm	≥600	
FUTURA RS 4 AF MINERAL				
TENSILE PROPERTIES				
MAXIMUM LOAD AT BREAK				
EN 12311-1	Longitudinal	N/50 mm	≥800	
	Transversal	N/50 mm	≥800	
ELONGATION AT BREAK				
EN 12311-1	Longitudinal	%	≥35	
	Transversal	%	≥35	
EN 12691-A	RESISTANCE TO IMPACT AT 23 °C	mm	≥1000	
EN 12730-A	RESISTANCE TO STATIC LOADING AT 23 °C	kg	≥20	
RESISTANCE TO TEARING				
EN 12310-1	Longitudinal	N	≥200	
	Transversal	N	≥200	
EN 13948	RESISTANCE TO ROOTS PENETRATIO	-	-	
EN 1107-1	DIMENSIONAL STABILITY	%	≤0,3	
EN 1109	COLD FLEXIBILITY	°C	≤-25	
EN 1110	FLOW RESISTANCE AT ELEVATED TEMPERATURE	°C	≥140	
EN 1109	COLD FLEXIBILITY AFTER HEAT AGEING	°C	≤-15	
EN 1296	ARTIFICIAL AGEING BEHAVIOUR (FLOW RESISTANCE)	°C	130	
EN 1297	VISIBLE DEFECTS AFTER QUV TEST	-	-	
EN 12039	ADHESION OF GRANULES	%	≤30	

Thickness and weight parameters are indicative only for Italian market. In compliance with EN 13707 product standards (layers for roofing).

DIMENSIONS - PACKAGING

PRODUCT	THICKNESS mm	WEIGHT kg/m ²	DIMENSIONS m
FUTURA RS 4 AF MINERAL (Grey)	-	4,5	1x10
FUTURA RS 4 AF MINERAL (Other colours)	-	4,5	1x10
FUTURA RS 4 AF MINERAL (Grey)	-	5	1x8
FUTURA RS 4 AF MINERAL (Other colours)	-	5	1x8

AVAILABLE COLOURS

Upperside protected with colored mineral slate chips:



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



BRIGDES AND VIADUCTS



RESERVOIRS AND CANALS



GALLERY AND TUNNEL



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



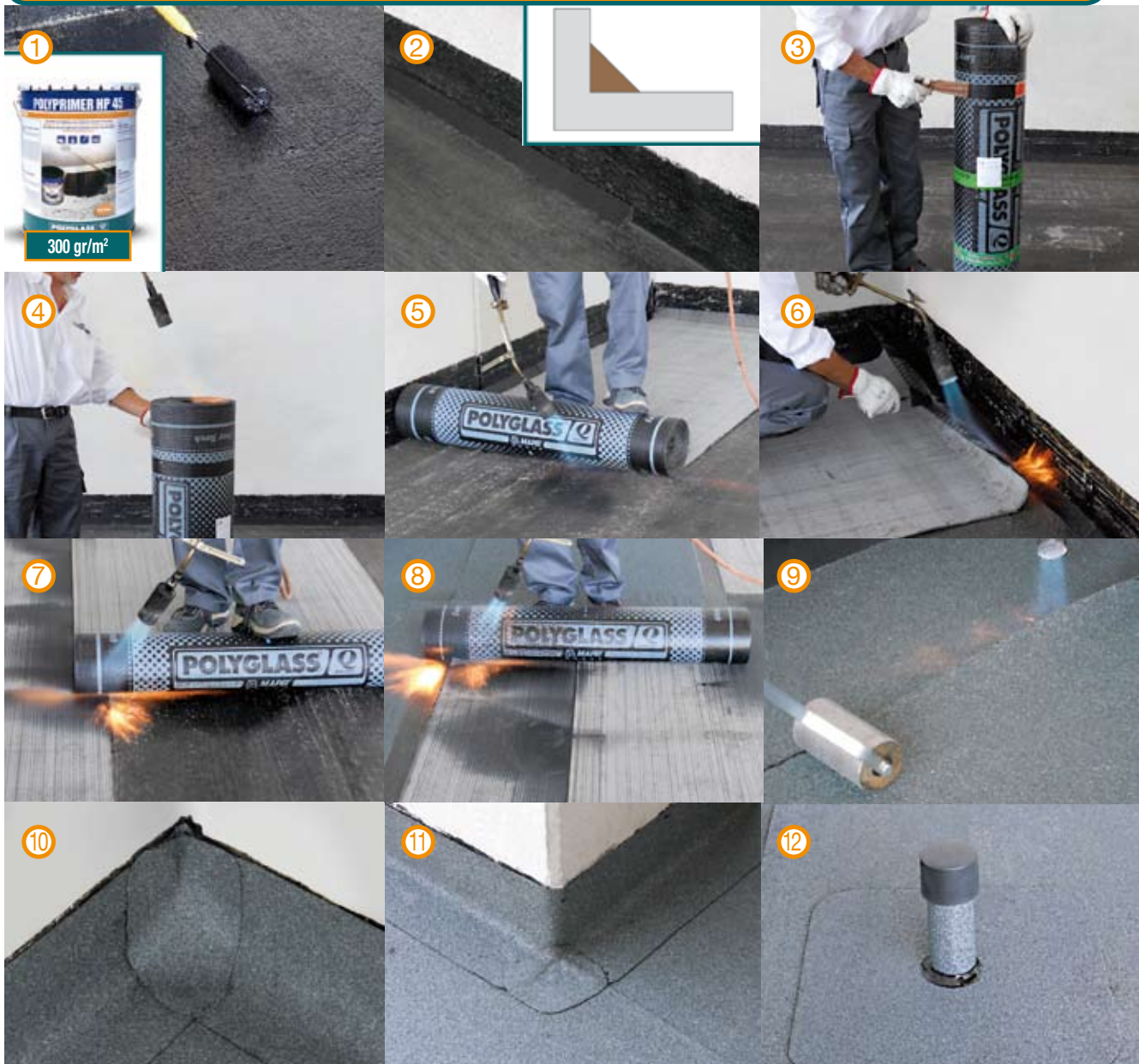
DETAILS



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

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