

FUTURA RS 4 FUTURA RS 4 mineral

FUTURA RS4 and FUTURA RS4 MINERAL are plastomeric waterproofing membranes with outstanding performance indicated for surfaces subject to extreme stress.



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
POLYCLASS

MAPER

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TECHNICAL DESCRIPTION

FUTURA RS 4 and **FUTURA RS 4 MINERAL** are 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

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

FUTURA RS 4 and **FUTURA RS 4 MINERAL** are 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. 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

FUTURA RS 4 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 BASY TOTAL (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 (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



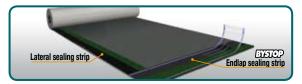
Sand



Non woven polypropylene fabric



POLYFLAM BESY TOTOLD



(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 results in terms of function or aesthetics **TECHNICAL UNIT OF METHOD CHARACTERISTICS** MEASURE VALUES **VALUES** EN 1848-1 LENGTH 10 (-1%) 10 (-1%) m EN 1848-1 WIDTH 1 (-1%) m 1 (-1%) EN 1848-1 **STRAIGHTNESS** mm/10 m Exceeds Exceeds 4 (-0,2)* EN 1849-1 THICKNESS mm 4 (-0,2) MASS PER UNIT AREA EN 1849-1 NPD NPD kg/m² product's EN 1928-B WATERTIGHTNESS kPa Exceeds Exceeds WATERTIGHTNESS AFTER EN 13897 % NPD NPD from the STRETCHING FRoof EN 13501-5 EXTERNAL FIRE PERFORMANCE FRoof assume any liability for damages derived EN 13501-1 REACTION TO FIRE Euroclass F EN 12316 PEEL RESISTANCE NPD NPD N/50 mm EN 12317 SHEAR RESISTANCE N/50 mm 650/450 (-20%) 650/450 (-20%) TENSILE PROPERTIES MAXIMUM LOAD AT BREAK 750 (-20%) 550 (-20%) N/50 mm 750 (-20%) Longitudinal EN 12311-1 550 (-20%) Transversal N/50 mm ELONGATION AT BREAK cannot Longitudinal 40 (-15) 40 (-15) Transversal % 40 (-15) 40 (-15) Polyglass SpA EN 12691-A RESISTANCE TO IMPACT mm ≥900 ≥900 EN 12730-A RESISTANCE TO STATIC LOADING kg ≥15 ≥15 LAYERING, RESISTANCE TO TEARING EN 12310-1 Longitudinal Ν 150 (-30%) 150 (-30%) Transversal Ν 150 (-30%) 150 (-30%) inside COMPLEX WATERPROOF EN 1107-1 DIMENSIONAL STABILITY % ≤0,3 ≤0,3 FORM STABILITY UNDER CYCLIC EN 1108 % TEMPERATURE CHANGE EN 1109 COLD FLEXIBILITY °C ≤-25 ≤-25 FLOW RESISTANCE AT ELEVATED °C EN 1110 ≥140 ≥140 **TEMPERATURE** use EN 1110 ARTIFICIAL AGEING BEHAVIOUR the possibilities for °C ≥140 ≥140 (FLOW RESISTANCE) EN 1296 ARTIFICIAL AGEING BEHAVIOUR EN 1297 Exceeds (VISIBLE DEFECTS) EN 12039 ADHESION OF GRANULES % <30 surfaces and EN 1931 WATER VAPOUR PROPERTIES 20000 20000 Ц VISIBLE DEFECTS EN 1850-1 Absent Absent support

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

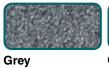
- PACKAGING

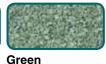
PRODUCT	THICKNESS mm	WEIGHT kg/m²	DIMENSIONS m
FUTURA RS 4	4	-	1x10
FUTURA RS 4 MINERAL (Grey)	4*	-	1x10
FUTURA RS 4 MINERAL (Other colours)	4*	-	1x10 - 5

^{*} Thickness on selvedge

AVAILABLE COLOURS

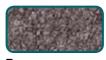
Upperside protected with colored mineral slate chips:











Brown







PROFILED METAL DECKS



INDUSTRIAL SAWTOOTH ROOFS



CURVED ROOFS



PITCHED ROOFS



FOUNDATIONS



UNDERGROUND CAR PARK







numerous types of

æ use, BRIGDES AND VIADUCTS





GALLERY AND TUNNEL



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







Thickness on lapping strip



- Treat the area to be waterproofed with bituminous primer (POLYPRIMER HP 45 Professional). 1
- 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.
- Lay the second layer by overlapping. Do not cross the sheets.
- 89 Roll the overlapping areas using the special pressing roller.
- 1 Example of internal corner.
- 1 Example of external corner.
- Example of vent pipe.

POLYGLASS SPA