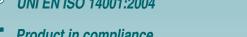


FLEXSHIELD HP FLEXSHIELD HP mineral

FLEXSHIELD HP and FLEXSHIELD HP MINERAL are plastomeric waterproofing membranes with outstanding performance indicated for special applications beneath binders on roads, bridges, and viaducts.



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











Certified product A.N.A.S.



All year membranes



Lateral and endlap sealing strips



Easily flamed non-stick polyethylene film

PROFESSIONAL LINE

WATERPROOFING MATERIALS AND INSULATING SYSTEMS
POLYGLASS®

© MAPER





TECHNICAL DESCRIPTION

FLEXSHIELD HP and **FLEXSHIELD HP 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. In addition to being rotproof, this reinforcement gives the membrane excellent mechanical characteristics in terms of elongation, tensile strength, and resistance to puncture. The special type of compound ensures remarkable characteristics of low temperature flexibility.

DESTINATION

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

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

The exceptional characteristics of the reinforcement and the compound suit **FLEXSHIELD HP** particularly to special applications, such as double layer waterproofing beneath binders on roads, bridges, and viaducts.

APPLICATION: INSTRUCTIONS AND RECOMMENDATIONS

FLEXSHIELD HP 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 TOTELD (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 (DECC) 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



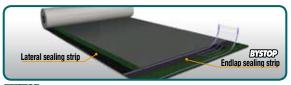
Sand



Non woven polypropylene fabric



POLYFLAM & SON 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.



ECHNICAL NOMINAL VALUES **TECHNICAL UNIT OF** METHOD CHARACTERISTICS MEASURE **VALUES** EN 1848-1 LENGTH 10 (-1%) 10 (-1%) m WIDTH EN 1848-1 1 (-1%) 1 (-1%) STRAIGHTNESS Exceeds EN 1848-1 mm/10 m Exceeds EN 1849-1 THICKNESS mm 4 (-0,2) NPD MASS PER UNIT AREA EN 1849-1 NPD 4,5 (±10%) kg/m² products EN 1928-B WATERTIGHTNESS kPa Exceeds Exceeds WATERTIGHTNESS AFTER from the EN 13897 % NPD NPD STRETCHING EN 13501-5 EXTERNAL FIRE PERFORMANCE FRoof FRoof LAYERING, Polyglass SpA cannot 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 NPD NPD TENSILE PROPERTIES MAXIMUM LOAD AT BREAK N/50 mm 1200 (-20%) 1200 (-20%) Longitudinal EN 12311-1 1000 (-20%) Transversal N/50 mm 1000 (-20%) ELONGATION AT BREAK Longitudinal % 40 (-15) 40 (-15) 40 (-15) 40 (-15) Transversal % RESISTANCE TO IMPACT EN 12691-A mm ≥1750 ≥1750 RESISTANCE TO STATIC LOADING EN 12730-A kg ≥35 ≥35 RESISTANCE TO TEARING EN 12310-1 Longitudinal N 200 (-30%) 200 (-30%) 200 (-30%) 200 (-30%) Transversal Ν inside COMPLEX WATERPROOF EN 1107-1 DIMENSIONAL STABILITY % ≤0,5 ≤0,5 FORM STABILITY UNDER CYCLIC EN 1108 % TEMPERATURE CHANGE EN 1109 **COLD FLEXIBILITY** °C ≤-20 ≤-20 FLOW RESISTANCE AT ELEVATED °C EN 1110 ≥140 ≥140 **TEMPERATURE** use EN 1296 ARTIFICIAL AGEING BEHAVIOUR the possibilities for °C ≥140 ≥140 EN 1109 (COLD FLEXIBILITY) ARTIFICIAL AGEING BEHAVIOUR EN 1297 NPD NPD (VISIBLE DEFECTS) EN 12039 ADHESION OF GRANULES % ≤30 surfaces and EN 1931 WATER VAPOUR PROPERTIES 20000 20000 μ 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) and EN 13969 Type T product standards (layers for foundations).

DIMENSIONS – PACKAGING

DIMENSIONS – PACKAGING							
PRODUCT	THICKNESS mm	WEIGHT kg/m²	DIMENSIONS m	e various situations			
FLEXSHIELD HP	4	-	1x10	ing th			
FLEXSHIELD HP	5	-	1x8	Consideri			
FLEXSHIELD HP MINERAL Grey	-	4,5	1x10	Co			

VAILABLE COLOURS

Upperside protected with colored mineral slate chips:



Grey







PROFILED METAL DECKS



INDUSTRIAL SAWTOOTH ROOFS



CURVED ROOFS



PITCHED ROOFS



FOUNDATIONS



UNDERGROUND CAR PARK





ROOF GARDENS



numerous types of

BRIGDES AND VIADUCTS





GALLERY AND TUNNEL



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







POLYGLASS SPA reserves



- 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.
- 8 9 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