

ELASTOSHIELD TS 4 ELASTOSHIELD TS 4 mineral

ELASTOSHIELD TS 4 and ELASTOSHIELD TS 4 MINERAL are elastomeric waterproofing membranes with outstanding performance indicated for surfaces subject to cyclical movement.



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



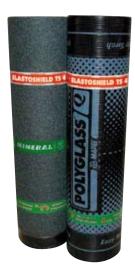
Easily flamed non-stick polyethylene film



Bituminous membrane polymeric matrix ageing control.

PROFESSIONAL LINE





TECHNICAL DESCRIPTION

ELASTOSHIELD TS 4 and **ELASTOSHIELD TS 4 MINERAL** are elastomeric waterproofing membranes with outstanding performance, made of a latest generation distilled bitumen-based compound and thermoplastic elastomeric resin (SBS) with elevated elasticity reinforced with a continuous non-woven polyester fabric and longitudinal glass fibre. In addition to being rotproof, this reinforcement gives the membrane excellent mechanical characteristics (in terms of elongation and tensile strength, resistance to puncture, and dimensional stability).

The special elastomeric compound grants exceptional low temperature flexibility.

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 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

The exceptional characteristics of elasticity provided by SBS polymer suit **ELASTOSHIELD TS 4** and **ELASTOSHIELD TS 4** MINERAL particularly to the waterproofing of (metal and prefabricated) structures subject to cyclical movement or considerable dimensional variation. Elevated chemical-physical and mechanical properties guarantee **ELASTOSHIELD TS 4** perfect adhesion to the support surfaces and between layers. **ELASTOSHIELD TS 4** must be protected by suitably heavy protection against solar radiation. 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

ELASTOSHIELD TS 4 has its upperside covered with a special layer of transparent non-stick polyethylene film. Its underside is protected and faced with **POLYFLAM** (reduced printed area increases product adhesion film). The non-stick polyethylene film is flamed during laying.

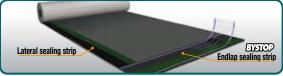
In the MINERAL version, the upperside is protected by an even layer of colored or natural mineral slate chips and features (Didd) patented) lateral and endlap sealing strip for easy overlapping. Support surfaces must be dry, clean, and sufficiently smooth and level. Application is made by light flaming with propane gas. Laying is quick and easy.



Non-stick polyethylene film



POLYFLAM BOSY 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.



EHHNICHAI function or aesthetics TECHNICAL CHARACTERISTICS UNIT OF MEASURE NOMINAL VALUES NOMINAL VALUES TEST METHOD 10 (-1%) EN 1848-1 LENGTH m 10 (-1%) esults in terms of EN 1848-1 WIDTH 1 (-1%) 1 (-1%) m EN 1848-1 STRAIGHTNESS mm/10 m Exceeds Exceeds EN 1849-1 THICKNESS 4 (-0,2) $4(-0,2)^{-1}$ mm EN 1849-1 MASS PER UNIT AREA NPD NPD kg/m² product's r EN 1928-B WATERTIGHTNESS Exceeds kPa Exceeds WATERTIGHTNESS AFTER from the p EN 13897 % NPD NPD **STRETCHING** EN 13501-5 EXTERNAL FIRE PERFORMANCE FRoof FRoof Polyglass SpA cannot assume any liability for damages derived REACTION TO FIRE EN 13501-1 Euroclass F F EN 12316 PEEL RESISTANCE N/50 mm NPD NPD SHEAR RESISTANCE EN 12317 650/500 (-20%) N/50 mm 650/500 (-20%) TENSILE PROPERTIES MAXIMUM LOAD AT BREAK N/50 mm 860 (-20%) 860 (-20%) Longitudinal EN 12311-1 600 (-20%) Transversal N/50 mm 600 (-20%) **ELONGATION AT BREAK** Longitudinal % 40 (-15) 40 (-15) 40 (-15) 40 (-15) Transversal % RESISTANCE TO IMPACT EN 12691-A mm ≥900 ≥900 RESISTANCE TO STATIC LOADING EN 12730-A ≥15 kg ≥15 the possibilities for use inside COMPLEX WATERPROOF LAYERING, RESISTANCE TO TEARING EN 12310-1 Longitudinal N 150 (-30%) 150 (-30%) 150 (-30%) Transversal Ν 150 (-30%) 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 ≥100 ≥100 **TEMPERATURE** ARTIFICIAL AGEING BEHAVIOUR EN 1109 °C ≤-15 ≤-15 EN 1296 (FLOW RESISTANCE) ARTIFICIAL AGEING BEHAVIOUR EN 1297 NPD (VISIBLE DEFECTS) EN 12039 ADHESION OF GRANULES % ≤30 the numerous types of support surfaces and EN 1931 WATER VAPOUR PROPERTIES 20000 20000 μ

VISIBLE DEFECTS

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

DIMENSIONS PACKAGING

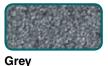
DIMENSIONS – PACKAGING									
PRODUCT	THICKNESS mm	WEIGHT kg/m²	DIMENSIONS m	Considering the various					
ELASTOSHIELD TS 4	4	-	1x10	Consid					
ELASTOSHIELD TS 4 MINERAL Grey	4*	-	1x10						
ELASTOSHIELD TS 4 MINERAL Other colours	4*	-	1x10						

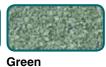
^{*} Thickness on selvedge

EN 1850-1

WAILABLE GOLOURS

Upperside protected with colored mineral slate chips:

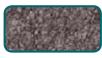








Absent



Absent

White **Brown**







PROFILED METAL DECKS



INDUSTRIAL SAWTOOTH ROOFS



CURVED ROOFS



PITCHED ROOFS



FOUNDATIONS



UNDERGROUND CAR PARK







BRIGDES AND VIADUCTS





GALLERY AND TUNNEL



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







^{*} Thickness on lapping strip

POLYGLASS SPA reserves



- 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.
- 6 Position and apply the sheet by flaming its bottom surface.
- 6 Pull the sheet up to a certain height against vertical surfaces.
- Apply the second sheet with adequate overlapping.
- 8 Lay the second layer by overlapping. Do not cross the sheets.
- Roll the overlapping areas using the special pressing roller.
- Example of internal corner.
- Example of external corner.
- Example of vent pipe.



Adds value!

POLYGLASS SPA