Polylastic

One-pack water-based elastomeric bitumen membrane



POLYLASTIC is a ready-to-use one-pack water-based elastomeric bitumen membrane made from a blend of special bitumen, specific synthetic elastomeric resins and high-dispersion fillers.
The resulting compound has a high level of adhesion on many substrates, making the surfaces waterproof.
Once dried, **POLYLASTIC** forms a highly elastic film that can adhere to a range of different substrates, standing up to the elements, UV radiation and withstanding hairline cracking on the substrates, if any.
POLYLASTIC's formulation means it can be left exposed, covered with cement mortar or coated.
POLYLASTIC is a product with extremely low emissions of volatile substances; it is EMICODE EC1 plus certified and meets the requirements of the CAM Decree, Criterion 2.4.1: Indoor Emissions.

Certifications

CE 1600 - 1308	PRODUCT COMPLIANT WITH EUROPEAN STANDARD EN 14891 AND EN 1504-2
SOCOTEC	MEETS THE REQUIREMENTS AS SET OUT IN STANDARD EN ISO 12944-6 CORROSION CLASS C5 AND DURABILITY CLASS H (HIGH) ON METALLIC ZINC FOIL.
SOCOTEC	MEETS THE REQUIREMENTS OF THE TEST IN SALT FOG 720 HOURS ACCORDING TO EN ISO 4628-2 ON STEEL S 275%
EELab	POLYLASTIC WHITE REFLECT SOLAR REFLECTANCE INDEX 98 %
GEV EMICODE EC 1 PLUS VERY LOW EMISSION	PRODUCT WITH EXTREMELY LOW EMISSIONS OF VOLATILE ORGANIC COMPOUNDS

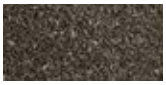
INTENDED USES

POLYLASTIC is applied to coat and waterproof concrete structures, fibre-cement, wood, metal surfaces or bitumen membranes; it can also be used to restore old polymer bitumen membranes.
POLYLASTIC can also cope with occasional minor water ponding. Concrete structures must have cured properly and must be sized to avoid hairline cracking or breakage (reinforcement of screed or concrete). Any uneven patches of concrete must be remediated with suitable cement mortar.
POLYLASTIC can be used as waterproofing for concrete surfaces where paving may then be laid on top.
When applied to FUTURA X FIRE P G F bituminous membrane, **POLYLASTIC** maintains its $B_{ROOF}(t2)$ external fire resistance classification in accordance with EN 13501-5.
It is up to the Designer and/or Installer to check the installation's feasibility and the compatibility of materials, so as to avoid possible cracking issues (see crack-bridging ability below).
When laying tiling, we recommend using C2TES1 or C2TES2 cementitious adhesives as set out in standard EN 12004.
POLYLASTIC is particularly good for remediating, repairing and/or protecting surfaces waterproofed with old polymer distilled bitumen membranes surfaced with talc, sand or slate chippings.
POLYLASTIC can be applied on damp surfaces, but not in pooling water.
Do not apply to bitumen membranes that have just been installed as the natural small amount of migration of oils in the compound might mean the product fails to adhere perfectly.
We recommend waiting at least 6 months when dealing with torched-on bitumen membranes or other bituminous materials, and 3 months on cold-applied bituminous materials; in all cases, give the surfaces to be treated time to oxidize.

INSTALLATION TIPS

POLYLASTIC is a ready product and must be stirred to an even, fluid consistency before being applied, using a brush, roller or trowel. Before applying POLYLASTIC, make sure you remove any parts that are loose, crumbling away or unsound, along with any paint, rust, dust or form oils; surfaces must be thoroughly cleaned, sound and dry.
You are advised against applying POLYLASTIC if it is about to rain, or if there is a chance of dew, fog or frost as the product could get washed off or not adhere to the treated surface. Avoid temperature extremes during the film's application and drying time.
You must be sure that there will be optimal installation conditions for at least 24 hours prior to and following application.
Being a water-based product, POLYLASTIC is affected by freezing temperatures and must be applied with ambient temperatures in the +5 to +35 °C range.
The product, in its original packaging, must be kept indoors at a minimum temperature of 5 °C and can be stored for up to 12 months.
POLYLASTIC is applied in 2 coats: the second coat must be applied at least 24 hours after the first coat has been allowed to dry.
In the event you wish to improve the product's mechanical strength, or where it is not being applied straight on top of prefabricated bitumen membranes, we recommend applying POLIESTERE 60 reinforcement.
To apply the reinforcement correctly, embed POLIESTERE 60 in the first coat while the material is still wet, applying suitable pressure as you roll over it so that it is incorporated into the coating.
For best installation results and maximized product performance, it is best to wait 12-24 hours before applying each subsequent coat, depending on the temperature and ambient moisture.
To speed up application times, the second coat can be applied wet on wet provided reinforcement has been used.
The average consumption rate varies depending on the substrate and desired thickness. Whatever the case, the average consumption rate for the 2 coats without reinforcement is 1,5-2 kg/m^2; with reinforcement, this becomes 2-2,5 kg/m^2.

AVAILABLE COLOURS


Black


Grey


Brown


Bright red


Green


Blu


White


Reflect White

POLYGLASS
MAPEI GROUP

Polylastic

TECHNICAL CHARACTERISTICS

STANDARD	TECHNICAL CHARACTERISTICS	UNIT OF MEASURE	NOMINAL VALUES
-	APPEARANCE	-	Thixotropic paste
EN ISO 2811-1	DENSITY AT 20° C Black White Grey Red Blu Green Brown Reflect White	kg/l	 1,35 (±0,05) 1,35 (±0,05) 1,35 (±0,05) 1,30 (±0,05) 1,30 (±0,05) 1,28 (± 0,04) 1,30 (±0,05) 1,30 (±0,05)
EN ISO 3251	SOLIDS CONTENT AT 130 °C	%	66 - 74
EN ISO 3219	BROOKFIELD VISCOSITY 20 °C (SP . N. 5 E 10 RPM)	Cp	30.000 (±6.000)
-	pH AT 20 °C	-	7 - 8
-	TOUCH DRY* AT 23 °C 50% RH	hours	6 ca.*
-	OVERCOAT INTERVAL AT 23 °C 50% RH	hours	24 - 48
-	FLASH POINT (CLOSED CUP)	-	Non flammable
EN 1062-7	STATIC CRACK BRIDGING EXPRESSED AS MAXIMUM CRACK WIDTH - RATING FROM CLASS A1 (0.1 mm) TO CLASS A5 (2.5 mm)	-	Class A5 (-10 °C) (>2,5 mm)
-	EMISSIONS OF VOLATILE ORGANIC COMPOUNDS	-	EMICODE EC1 plus
UNI EN 1504-2 - C COATINGS - PI MC IR PR			
EN 1062-6	CO_2 PERMEABILITY	m	S_D >50 m
EN ISO 7783	WATER VAPOUR TRANSMISSION RATE	-	Class I - S_D <5 m
EN 1062-3	CAPILLARY WATER ABSORPTION AND PERMEABILITY	-	w <0,1 kg/m²·$h^{0.5}$
EN 1542	BOND STRENGTH BY PULL-OFF	N/mm²	≥1
EN ISO 5470-1	ABRASION RESISTANCE	g	<3
EN ISO 6272-1	IMPACT RESISTANCE	-	Class III
UNI EN 14891 - LIQUID WATERPROOFING PRODUCTS TO BE USED UNDER CERAMIC TILES GLUED WITH ADHESIVES			
-	INITIAL TENSILE ADHESION STRENGTH (POINT A.6.2)	N/mm²	>0,5
-	ADHESION STRENGTH AFTER WATER CONTACT (POINT A.6.3)	N/mm²	>0,5
-	TENSILE ADHESION STRENGTH AFTER HEAT AGEING (POINT A.6.5)	N/mm²	>0,5
-	ADHESION STRENGTH AFTER FREEZE-THAW CYCLES (POINT A.6.6)	N/mm²	>0,5
-	ADHESION STRENGTH AFTER CONTACT WITH LIME WATER (A.6.9)	N/mm²	>0,5
-	WATERPROOFING (A.7)	-	No penetration
-	CRACK BRIDGING ABILITY (-5 ±1 °C) (A.8)	mm	>0,75
SOLAR REFLECTANCE POLYLASTIC REFLECT WHITE**			
ASTM E 1980-11	SRI SOLAR REFLECTANCE INDEX Low wind 0-2 m/s Medium wind 2-6 m/s High wind 6-10 m/s	 % % %	 97,6 97,9 98,1
UNI EN 15976	E THERMAL EMISSIVITY	%	87
ASTM C 1549-09	R SOLAR REFLECTANCE	%	78

** Data may vary depending on the thickness of the product, the substrate's porosity, temperature, humidity and ventilation.*
*** Data from the laboratory test n° ETR-21-0567.*

RESISTANCE TO STATIC INDENTATION EOTA TR 007		
Load	**Load category**	**Resul**
150 N	P2	Product watertightness: Level L2 with load category P2
RESISTANCE TO DYNAMIC INDENTATION EOTA TR 006		
Indenter type	**Indenter diameter**	**Result**
L2	20 mm	Product watertightness: Waterproof

PACKAGING

5 kg and 20 kg tubs.

STORAGE

Correct storage: do not leave tubs in direct sunlight or exposed to freezing temperatures; the product is best stored in a cool, well-ventilated place at a temperature of +5 °C. Under these conditions, the product's shelf life in its original properly sealed container is 24 months.

EQUIPMENT CLEANING

Clean equipment with water after use.

SAFETY RULES

Refer to the current safety data sheet.

LEGAL RULES

The values given are approximate average data relating to the current product range and may be edited or updated by Polyglass SpA at any time without any prior notice. As the Customer or User, it is your responsibility to check that the technical data sheet you have is valid for the batch of product in question and, whatever the case, that you have the latest version issued.
Always refer to the latest up-to-date version of the Technical Data Sheet and relevant Declaration of Performance, both of which you can find on our site www.polyglass.com. As the End User, it is your responsibility to check that the product is fit for its intended purpose.

PRODUCT FOR PROFESSIONAL USE

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UNI EN ISO 9001
UNI EN ISO 14001
UNI EN ISO 45001
GREEN BUILDING COUNCIL ITALIA
ITALIAN PRODUCERS WATERPROOFING MEMBRANES

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