



## POLYSINT SUN REFLECT

**POLYSINT SUN REFLECT** is a liquid waterproofing water-based membrane, with fibres in white colour at high solar reflectance and thermal emissivity with solar reflectance index (SRI) 105 which offers to all the surfaces a protection against damages caused by the atmospheric agents.



EN 1504-2



Polyglass est membre du  
Green Building Council



Certificate t2i n° N 1232 R01/18  
company certified ACCREDIA



*Adds value!*

## TECNICAL DESCRIPTION

POLYSINT SUN REFLECT is a liquid waterproofing water-based membrane, with fibres in white colour produced with particular synthetic resins, at high solar reflectance (83%) and thermal emissivity (91%) with a solar reflectance index (SRI) 105 for bituminous polymer membranes and for concrete. The product forms an elastic film which follows the possible deformations and dilatations of waterproofing materials where applied.

## WHERE TO APPLY IT

POLYSINT SUN REFLECT is particularly apt to protect from U.V. rays and from heat the waterproofing achieved/realized with bituminous polymer membranes with talc, sand or self-protected with granules. The product is moreover applied on waterproofing layers achieved with liquid water or solvent-based membranes such as Acriplast and Idroplast. It is also apt to waterproof concrete roofs. It is used for the protection of concrete surfaces with a 3% minimum slope in order to drain rain water. POLYSINT SUN REFLECT, applied as finishing layer on waterproofing creates a barrier at high reflectance from UV rays, it reduces the temperature of the all stratigraphy by protecting the insulation, guaranteeing in that way a good energy save. It improves the efficiency and the yield of plants for production of electricity with solar panels. The product reduces of about 50% the surface temperature of the roof if compared to a dark/black roof but also the internal temperature of the building. POLYSINT SUN REFLECT with its high reflectance index (SRI) 105, applied on mineral bituminous membrane Futura RS 4 AF certified BROOF (t2), is resistant to external fire according to the procedures specified in the norm UNI EN 13501-5:2016, test achieved according to UNI CEN/TS 1187:2012 norm on EPS with density 20kg/m<sup>3</sup> of 50 mm thickness and 30° slope. For this reason we have a system certified BROOF (t2) and a higher reflectance power of all the roof (SRI 105) reducing the heat island.

## HOW TO APPLY

POLYSINT SUN REFLECT is ready for use and can be sprayed or applied by means of roller or brush in 2 crossed coats. Surfaces must be dry, free of dust and dirt, perfectly adherent. For the application on polymer bituminous membranes with granules clean the surface with compressed air or with high pressure washing, in order to remove possible incoherent slates with the bituminous surface. Do not apply the product on surfaces subject to rising damp and in case of imminent or expected rain. Do not apply below +5 °C or at temperature higher than +35 °C. Do not apply the coating on new bituminous membranes, because the minimum natural transmigration of oils from the compound could not guarantee the perfect product adhesion. It is recommended to wait at least 6 months on membranes or bituminous products hot applied and 3 months on bituminous products cold applied; in every case wait till the complete oxidation of the surfaces to treat. The product is applied in 2 crossed coats; it is possible to dilute the first coat of 5% with water, till a maximum of 10% to obtain a better grip; second coat will be applied not diluted, after about 8-12 hours and in every case only after the complete drying of the first one. The consumption changes according to the nature and the porosity of the support. The average consumption on bituminous membranes with granules is of about 900 g/m<sup>2</sup> in the 2 coats and on talc or sand membranes it is of about 500 g/m<sup>2</sup>; on concrete, the consumption in 2 coats is of about 2 kg/m<sup>2</sup>. The product is walkable for maintenance and for renovation.

## TECHNICAL CHARACTERISTICS

ASPECT	Paste	STATIC CRACK-BRIDGING AT +23 °C NORM EN 1062-7 (mm)	Class A4
COLOUR	White	STATIC CRACK-BRIDGING AT 0 °C NORM EN 1062-7 (mm)	Class A4
DENSITY	1,35 g/cm <sup>3</sup>	DYNAMIC CRACK-BRIDGING AT 0 °C NORM EN 1062-7 (mm)	Class B2
SOLID CONTENTS	61,4 %	PERMEABILITY TO WATER VAPOUR Sd (m) NORM EN ISO 7783-1 (class 1)	1,38
VISCOSITY BROOKFIELD	16.000 (5-10 rpm) mPa-s	IMPERMEABILITY TO WATER NORM EN 1062-3	0,02 kg/m <sup>2</sup> · h 0,5
APPLICATION TEMPERATURE	From +5 °C to +35 °C	PERMEABILITY TO CARBON DIOXIDE (CO <sub>2</sub> ) NORM EN 1062-6	400 m
READY FOR USE AT 23 °C AND 50%R.H.	About 48 hours	REACTION TO FIRE - NORM EN 13501-1	Euroclass B-s1-d0
ELONGATION AT BREAK ISO 37	200%		
TENSILE STRENGTH ISO 37	1,5 N/mm <sup>2</sup>		
DRYING TIME BETWEEN THE FIRST AND THE SECOND COAT AT +23 °C, 50% U.R.	About 8-12 hours		
ADHESION TO CONCRETE - AFTER 28 DAYS AT +20°C AND 50% U.R. - NORM EN 1542	1,3 N/mm <sup>2</sup>		



EELab (Energy Efficiency Laboratory)

SRI SOLAR REFLECTANCE INDEX (6-10 m/s) - ASTM E1980	105
R SOLAR REFLECTANCE - ASTM E903	83%
E THERMAL EMISSIVITY - ASTM C1371	91%

Polysint Sun Reflect, thanks to the high solar reflectance Index (SRI=105), contributes in LEED protocols to obtain the credit "sustainable sites: Heat Island Reduction".

Rev. 1-18

## PACKAGING DIMENSIONS AND STOCK INFORMATION

PACKAGING	Drum of 20 Kg.
SHELF LIFE	If perfectly closed, stocked in dry place far from frost and sun the shelf life is 24 months.
TOOL CLEANING	After use clean tools with water.

## SAFETY NORMS

See safety data sheet

PRODUCT FOR PROFESSIONAL USE

The figures, information and suggestions result from the experience of POLYGLASS SPA.

Anyone who uses Polysint Sun Reflect must ensure that the product is suitable for the specific use and application. In any case the installer is only person responsible for the correct application and therefore of all consequences arising from said application.

Please always refer to our last version of the technical data sheet on our site: [www.polyglass.com](http://www.polyglass.com). For any further information, please contact our technical office.

POLYGLASS SPA reserves the right, without notice, to modify the technical card according to the necessity to improve the product.



*Adds value!*

POLYGLASS SPA

Registered Office - Viale Jenner, 4 - 20159 MILANO - Italy

Head Office - Via dell'Artigianato, 34 - 31047 Ponte di Piave (TV) - Italy

Tel. +39 04227547 - Fax +39 0422854118 - [www.polyglass.com](http://www.polyglass.com) - [info@polyglass.it](mailto:info@polyglass.it)