

## EUROSTAR REFLECTA

WPBIT0054.c EUROSTAR REFLECTA is a plastomeric modified bitumen waterproofing membrane (APP). DESCRIPTION industrially manufactured by impregnation of the reinforcement with the waterproofing compound based on distilled bitumen modified with polyolefin polymers of the latest generation, which gives to the compound superior technical characteristics. The composite reinforcement, made of nonwoven spunbond polyester in combination with fiberglass, conveys high mechanical characteristics, excellent dimensional stability, isotropic behaviour and elastic performance. Shaping of sheets, straightness, dimensional and surface uniformity are accomplished by hot calendering of the mass at hot melt fluid state. It is a self-protected membrane. Special facture is the coating of the upper face with special white slate flakes with high solar reflectance. The high reflection property combined with a high emissivity allows the covering which the membrane is applied, on a lower heat absorption during the day and subsequently to trasmit and emit such thermal energy in the infrared field. This determines a lowering of the operating temperature of the waterproofing system and consequently of the indoor environments underneath the roof, with benefits in terms of energy saving and longer membrane lifespan. On the upper face there is a selvedge free of self-protection and covered with a polycarbonate film, that can be torched to facilitate overlap welding. The lower face is coated with a thermofusible polyolefin film. EUROSTAR REFLECTA is a top performance membrane and well above the other waterproofing **FIELD OF** membranes available on the market. It is particularly suitable as single layer and as top layer in multi-APPLICATION layer waterproofing systems, with compatible membranes, where required fire resistance (product class: BRoof (t2) in accordance with CEN TS 1187 and EN 13501-5). General roofing, vehicles parking roofs, foundations, on under floors or ground slabs, wall constructions, water tanks, tunnels, as protection from acid and basic solutions are valid examples of the design application of this product. It is not suitable for roof gardens. It can be applied onto every substrate (concrete, masonry, steel, wood, insulation panel, membrane, etc.) and under heavy protection. The excellent mechanical characteristics and high level thermo-dynamic stability make it suitable for any climate conditions and all the situations where a barrier against water is required. The membrane has high hail resistance values on both rigid and soft substrates, according to the UNI EN 13583: 2012 standard, confirmed by the Test Report no. 379098 issued by the Ist. Giordano S.p.A. The excellent thermoplastic properties of the waterproofing compound allow the application with torch-METHOD OF on system or hot air generator. In particular situations, it could be applied with appropriate sealants or INSTALLATION mechanical fastenings. The application of the membrane must be carried in good weather conditions and after the substrate has been adequately cleaned and prepared. The product is packed as standing rolls on wooden pallets wrapped with thermoshrinking protective PACKING AND hoods. Rolls must be stored in the upright position, without stacking the pallets to avoid deformations STORAGE which can compromise the correct application of the membrane. The product must be stored indoor, protected from heat and frost. **INTENDED USE** Flexible sheets for waterproofing. Reinforced bitumen sheets for roof **OR USES** waterproofing Flexible sheets for waterproofing. Bitumen damp proof sheets including bitumen basement tanking sheets 1. Selvedge 2. Mineral protection 3. Waterproofing mass 4. Reinforcement 5. Waterproofing mass 6. Torch-off film

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## **EUROSTAR REFLECTA**

## **TECHNICAL DATA**

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Thickness	EN1849-1	4 (on selvedg e)	(mm)	±0,2
Roll length	EN1848-1	7,5	(m)	-1%
Roll width	EN1848-1	1,1	(m)	-1%
Straightness	EN1848-1	PASSED	-	20 mm / 10 m
Flexibility at low temperature (pliablility)	EN1109	-30	(°C)	5
Heat flow resistance	EN1110	140	(°C)	2
Watertightness	EN1928-B	60	(kPa)	2
Water vapour transmission properties	EN1931	20.000	(µ)	-
		M.d. C.d.		
Tensile properties: maximum tensile strength	EN12311-1	850 / 750	(N/50 mm)	-20%
Tensile properties: elongation at break	EN12311-1	40 / 40	(%)	-15
Resistance to tearing (nail shank)	EN12310-1	250 / 250	(N)	-30%
Dimensional stability	EN1107-1	±0,2 / ±0,2	(%)	5
Peal resistance of joints	EN12316-1	50 / 50	(N/50 mm)	-20
Shear resistance of joints	EN12317-1	850 / 750	(N/50 mm)	-20%
Resistance to static puncture	EN12730-A	20	(kg)	2
Resistance to impact	EN12691-A	1250	(mm)	2
External fire performance (note 1)	EN1187/EN13501-5+A1	Broof t2 *	Class	-
Reaction to fire	EN11925-2/EN13501-1+A1	E	Class	-
Root resistance	EN13948	NPD		
Determination of adhesion of granules (Loss)	EN12039	PASSED	(%)	<30
Visible defects	EN1850-1	PASSED	-	-
Durability: Flexibility at low temperature after artificial ageing	EN1296/EN1109	-30	(°C)	+15
Durability: Flow resistance at elevated temperature after artificial ageing	EN1296/EN1110	130	(°C)	-10
Durability: Watertightness after artificial ageing	EN1296/EN1928-B	PASSED	(kPa)	≥ 60
Durability: Visual defects after artificial ageing	EN1297/EN1850-1	PASSED	-	PASSED
Durability: Watertightness against chemicals	EN1296/EN1847	NPD		
Solar Reflectance (SR)	ASTM C1549	0,699	-	±0,009
Solar Reflectance Index (SRI) at medium wind hc= 12 W/m2*K	ASTM E1980	84,8	(%)	-
Infrared emittance (IE)	EN15976	0,911	-	±0,020
Determination of hail resistance (on a rigid support).	EN13583	47	(m/s)	

**WARNINGS** \* Classification valid only for the application of the membrane for systems as indicated by certification available on request.

## NORMS

<u>7-5</u>

Fire

Cool Roof

EN13707; EN13969

Top layer in multi-layer F systems Fire C sistance Hail Resistance



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