

TERANAP 431 TP - 4 m wide

Elastomeric bitumen geomembrane



DESCRIPTION

TERANAP 431 TP is a large width waterproofing geomembrane with SBS elastomeric bitumen for civil engineering and tanking applications. It is manufactured with a special blend and a special reinforcement to resist to chemical aggressions and to high sea water pressure. This allow the membrane to have superior physical properties (see characteristics table).

TERANAP 431 TP in 4 m wide is certified by ASQUAL.



SCOPE OF APPLICATION

High performance reinforced waterproofing geomembrane manufactured with SBS elastomeric bitumen.

This product is used for :

- Tanking systems (basements, tunnels, ...).
- hydraulic jobs (ie : dams, canals, irrigation jobs, fish breeding basins, entertainment basins, fire protection reservoirs, drinkable water storage (closed tanks, watertanks, etc..).
- environmental protection sites (i.e : road, industrial or agriculture basins, sewage (cleaning, decanting, spreading sites) technical burying centers, refuse dumps coverings.

CARACTERISTICS

	Unit	Standard	TERANAP 431 TP - 4m
			Average value
Thickness	mm	NF EN 1849-1	4.1
Longitudinal overlap width	mm	NF EN 1848-1	
Mass per unit area	g/m ²	NF EN 1849-1	4850
Strength at break (MD x CMD) ¹	N/5cm	NF EN 12311-1	1300 x 1100
Elongation at break	%		49 x 53
Static puncture:		NF EN ISO 12236	
- Force	kN		3.42
- Displacement	mm	47	
Cold temperature flexibility	°C	NF EN 1109	- 20
Flow resistance (100 °C, 2h)	mm	NF EN 1110	100
Water tightness	m ³ /m ² /j	EN 14150	1 x 10 ⁻⁷
Gas tightness	m ³ /m ² /j	ASTM D 1434	2,76 x 10 ⁻⁵
Resistance to oxidation		NF EN 14575	Very Good
Resistance to weathering ²		NF EN 12224	No loss in properties

¹ MD: Machine Direction; CMD: Cross Direction

² Test-conditions: 5 hours UV cycle at 50 °C followed by 1 hour condensation at 20 °C; Total: 3000 hours.

PRODUCT TECHNICAL INFORMATION

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COMPOSITION AND NOMINAL CHARACTERISTICS

Upperface	Sanded
Blend	Filerized (Styrene-Butadiene-Styrene) elastomeric bitumen
Reinforcement	Non-woven polyester
Underface	Root resistant polyester film
Selvedge underface	Siliconised release film
Thickness at the selvedge (mm)	4
Thickness at the main area	4
Weight/Sqm (kg)	5

PACKAGING

	Length	Width	Nominal weight/roll	Roll diameter
TERANAP 431 TP - 4 m	80 m	4 m	1700 kg	700 mm

- Products are rolled up with a plastic intercalated film.
- Each roll wears a data sheet indicating the trademark, the product name and the serial number. Rolls are piled up (prismatic volume) during transport.
- Rolls are equipped with metallic mandrels of 4.8 m long and internal diameter of 159 mm (+/- 0.5).
- **TERANAP 431 TP** is not classified as dangerous according to the international regulation of transport.

GENERALITIES ABOUT APPLICATION

This product is a part of a waterproofing and draining system using geosynthetic or geomembrane. Generally, the product rolling is carried out to have the polyester film in contact with the deck when directly unrolled (film face exterior of the roll). The overlappings are welded with a propane gas torch and roll pressed. The longitudinal overlaps are torched on 150mm edge mini when unrolling or on 200mm mini for hidden welding. The endlaps are torched on 200mm edge mini. This product must be applied in accordance with the relevant technical specifications.

For tanking applications, the longitudinal overlaps are torched on 100mm edge mini and the endlaps are torched on 150mm edge mini. All the overlaps receive an additional cover strip of PARAFOR M3S of 200mm width.

NOTE

- 1) Where 2 values for given characteristics are shown, the first is for the longitudinal direction and the second is for the cross direction.
- 2) Average values comply to UEAtc standard project (prEN WI 002254041). The manufacturing tolerances comply to UEAtc standards.
- 3) The information about purpose and methods of application of the product does not prevail against local regulations and practices. In case of doubt, do not hesitate to contact the Siplast's Technical Department.
- 4) Siplast reserves the right to change its composition as a result of technical and experimental improvements. This product data sheet supersedes any previous edition, to obtain the up-dated technical data sheet, please contact the Siplast's Technical Department.
- 5) This document is only a product technical data sheet. For each waterproofing design, please, consult the related technical agreement and in case of doubt contact the Siplast's Technical Department.

Our company reserves the right to modify products composition as a result of technologic improvements. This product data sheet supersedes the previous edition. To obtain the updated technical data sheet, please contact our technical department.

This product is not classified as dangerous according to the international regulation (ADR, RID, IATA, RTMDR).