

POLITES TNT

TNT cloth for the reinforcement with impregnation of liquid waterproofing

Non- woven, needled and thermo-calendered geotextile with propylene fibres. It is resistant to UV rays and it improves the tensile strength as well as the punching of liquid waterproofing systems. *Polites TNT* has high dimensional stability, it is not toxic and it can be used in combination with many other products.

BENEFITS

- Easy application.
- High mechanical strength.
- Maintain its features during time.
- Compatible with Diasen's liquid waterproofing systems.
- Product certified with the **European Technical Assessment - ETA n° 17/0769** when used in combination with *Acriflex Pro* o *Acriflex Rapido* waterproofing.

YIELD

1.00 m²/m² (1.00 ft²/ft²).

It is recommended to consider an overlapping of at least 3 cm (1.18 in).

COLOUR

Orange.

PACKAGING

Roll:

- Thickness: 0,55 mm (0.21 in).
- Dimensions: 20,00 x 1,00 m (65.61 x 3.28 ft).
- Area: 20,00 m² (215.3 ft²).
- Weight: 1,60 kg (3.52 lb).

APPLICATION FIELDS

Product designed for use as reinforcement in liquid waterproofing systems. *Polites TNT* is used for repairing and re-waterproofing cracks in new or existing bituminous and slated membranes in combination with *Acriflex Fybro* (see technical data sheet), *Acriflex Rapido* (see technical data sheet) or *Ultragum* (see technical data sheet). The *Ultragum* + *Polites TNT* system replaces the traditional system with a bituminous flame retardant membrane.

Polites TNT is also used in combination with the waterproofing *Acriflex pH4* (see technical data sheet) to reinforce the waterproofing layer in critical points (e.g. connection points between different materials) or to protect the waterproofing made with *Acriflex Antiroot* (see technical data sheet)..

STORAGE

Store the product in the original packaging, in well ventilated areas, away from sunlight and ice, at temperatures between +5°C (+41°F) and +35°C (+95°F).

PREPARATION OF THE SUPPORT

The surface must be thoroughly clean, dry, and free of loose and friable parts. For the preparation of the substrate it is necessary to follow the indications on the technical data sheet of the product with which *Polites TNT* is combined (*Acriflex Antiroot*, *Acriflex Fybro*, *Acriflex pH4*, *Acriflex Rapido* or *Ultragum*).

Bituminous membrane

Check that the membrane has been applied for at least 6 months to avoid detachment caused by the release of oils. Also provide for the installation of special air vents on the sheath, suitably positioned according to the humidity of the substrate. This is essential if the substrate is very absorbent and retains moisture, such as screeds lightened with polystyrene or expanded clay.



Polites TNT, together with the product *Acriflex Pro* or *Acriflex Rapido*, is part of the waterproofing system according to **ETAG 005:2000**, certified with the **European Technical Assessment - ETA n° 17/0769**.

ARMOURS – TNT

Whereas all indications and recommendations supplied herein are stated to the best of our experience and knowledge, they should be considered as indicative only and should be confirmed by exhaustive practical applications. Diasen doesn't know the peculiarity of the processing, or the characteristics of the support. Therefore the applicator should carry out preliminary tests, to verify the suitability to the foreseen application, and in any case he will take the responsibility of the intended use. In case of uncertainties or doubts, please contact the company's technical department, provided that this is only a simple assistance for the applicator: he should have the appropriate capabilities and experience to determine the more suitable solution. Always respect the latest update of the technical sheet available on www.diasen.com.

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APPLICATION

Polites TNT must be laid on the surface after the first layer of waterproofing product, then covered with the second layer (sandwich system). The joints between the sheets must maintain a minimum overlap of 3 cm. When applied to protect the waterproofing layer made with *Acriflex Antiroot*, *Polites TNT* must be laid after the waterproofing layer has dried.

Localised repair of bituminous membranes

1. Apply a first layer of product (*Acriflex Fybro*, *Acriflex Rapido* or *Ultragum*) with roller, spatula or airless. In case of rain on a not perfectly hardened product, carefully check the suitability for the subsequent covering.
2. When the first layer is not completely dry, apply the *Polites TNT* in order to maintain an overlap of 3 cm on the joints. *Polites TNT* must not present curling or bubbles.
3. Apply a second layer of product (*Acriflex Fybro*, *Acriflex Rapido* or *Ultragum*) taking care to cover perfectly *Polites TNT* avoiding to leave holes on the surface.

Waterproofing to replace the bituminous sheathing system

1. Apply a first layer of waterproofing with a roller, spatula or airless. In case of rain on a not perfectly hardened product, carefully check the suitability for the following covering.
2. When the first layer is not completely dry, apply the *Polites TNT* in order to maintain an

overlap of 3 cm on the joints. *Polites TNT* must not present curling or bubbles.

3. Apply a second layer of waterproofing taking care to perfectly cover the *Polites TNT* avoiding leaving holes on the surface.

SUGGESTIONS

- Do not apply at environmental temperature or at support temperature lower than +5 °C (+41 °F) and +35 °C (+95 °F).
- During summer season apply the product in the cooler hours of the day, away from sun.
- Do not apply with imminent threat of rain or frost, in conditions of strong fog or with relative humidity higher than 70%.

Also follow the instructions on the technical data sheet of the product with which *Polites TNT* is combined.

CLEANING

Polites TNT does not leave any residue on the tools used for the application. Follow the indications given in the technical data sheet of the products with which *Polites TNT* is combined.

SAFETY

During the handling use the personal protection means and follow the indications of the safety data sheet of the product.

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* These data, even if carried out according to standard test methods, are indicative and may undergo changes as the specific site conditions vary.

Technical data *		
Main features		Units
Yield	1.00 with 3 cm (1.18 in) of overlapping	m ² /m ² = ft ² /ft ²
Aspect	cloth	-
Color	white	-
Composition	propylene fibres	-
Fabric weight (EN ISO 9864)	80 ± 10%	g/m ²
	0.016 ± 10%	lb/ft ²
Average thickness fabric (UNI 9311/3)	0.6	mm
	0.024	in
Application temperature	+5 / +35	°C
	+41 / +95	°F
Packaging	Roll: 20.00 x 1.00 m	m
	65.61 x 3.28 ft	ft

Final performances		Units	Legislation	Results
Broadband tensile strenght	4,00	kN/m	EN ISO 10319	-
Enlogation	50% ± 15	%	EN ISO 10319	-
Resistance to static punching	750	N	EN ISO 12236	-
Resistance to dynamic punching	43,00	mm	EN ISO 13433	-
Dimension of characteristic opening	100 ± 30	µm	EN ISO 12956	-
Normal permeability of the plane	0,090	m/s	EN ISO 11058	-
Drainage capacity in the plane:				
20 kPa – i = 1	4,50 · 10 ⁻⁷	m ² /s	EN ISO12958	-
100 kPa – i = 1	1,50 · 10 ⁻⁷			
200 kPa – i = 1	1,00 · 10 ⁻⁷			
Prevision of the minimum durability	25 years in natural land with 4 < pH < 9 and land temperature < 25°C (77°F).		-	-
Oxidation Resistance – Residual strenght	> 50%	%	EN ISO13438	-



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