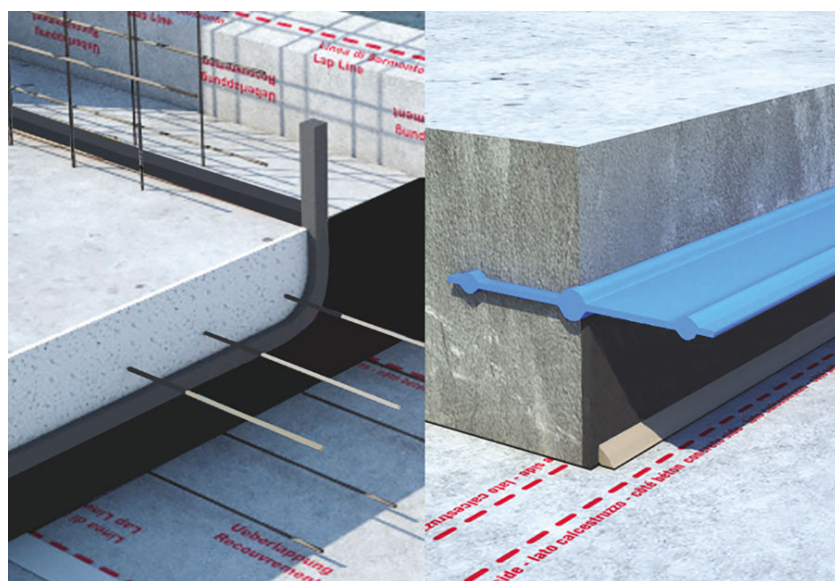




WT PANEL



**WATERSTOP - HYDRO-EXPANDING
MASTICS**



PRODUCT DESCRIPTION

WT PANEL is a modular waterstop panel based on AMPHIBIA copolymer in hydro-expansive EPDM, capable of adhering to the structure by pressure, effectively waterproofing it. Thanks to its flexibility, it can also be applied to particularly articulated products or uneven surfaces.

PRODUCT APPLICATION

- Waterproofing of joints of underground reinforced concrete structures also in combination with WT EXPANSION gasket and synthetic profiles in general
- Waterproof sealing of reinforced concrete slab head close to provisional works
- Waterproof sealing of horizontal and vertical 'fresh-on-fresh' casting, such as in the case of sloped casting on bed or vertical partitioning using shotcrete technique
- Sealing of discontinuities between concrete and/or steel surfaces, including joints between diaphragms, prior to construction of the reinforced concrete counter structure.

ADVANTAGES

- High hydro-expansive capacity and stability, effective even in the presence of discontinuities or cracks in the concrete
- Versatility and geometric adaptability thanks to the possibility of cutting, drilling and shaping, thus allowing complete integration with any technical joint
- Modularity of the panels, can be hot-melt coupled or bonded to obtain the thickness required by the design specifications
- Continuity of execution and optimisation of construction time through targeted installation of waterstop panels at

predefined discontinuity points, exploiting their specific hydroactive capacity

- Simplicity and speed of installation, with no need for special equipment or shaping of metal reinforcement, making installation straightforward and compatible with ordinary casting phases

PREPARATION AND APPLICATION

Eliminate any protrusions or cavities on the panel application surface, humidity does not hinder application.

How it works

When in contact with water, the WT PANEL hydrates thereby doubling the initial volume, thus contributing to the hydraulic seal of the joint.

In the event that the presence of water is not constant, WT PANEL remains stably expanded due to even the smallest moisture gradients that can be found in underground environments.

Laying in structural joints in combination with the WT EXPANSION profile (see detail FIG. 1)

Lay the panels along the surface of the joint using ULTRATAK or BI MASTIC (see relevant technical data sheets) and, if necessary, using nails and appropriate FIX 5 washers, checking the correct adhesion of WT PANEL to the substrate.

Make a connection rounded edge with AKTI-SEAL 201 at the base of the panels, along the entire length of the structural joint, in order to improve the continuity and tightness of the waterproofing system.

Then prepare the installation of the WT EXPANSION gasket (see relevant data sheet).

WT PANEL panels, depending on the initial opening of the structural joint, design specifications and site operating conditions, can be shaped to fit the geometry of the joint.

The coupling between WT PANEL panels can be performed by using ULTRATAK or BI MASTIC.

In the case of butt joints on structural joints with extended linear development, continuous joints can be made by hot sealing with a hot air gun (approx. 400 °C), or by bonding with the special adhesive AKTI-SEAL 201 in the joint area.

In order to ensure a better tightness of the system, it is recommended to stagger the butt joints between panels, avoiding joints overlapping on several adjacent levels or rows.

Applications in technical joints in combination with PVC profiles (see detail FIG. 2)

Lay the WT PANEL panels adjacent to the PVC profile (or similar) already installed inside the joint, in order to complete the sealing system, resulting in a watertight protection between the two concrete surfaces delimiting the structural joint.

Installation must be carried out by bonding with ULTRATAK or BI MASTIC (see relevant data sheets) and, where necessary, with mechanical fixing using nails and FIX 5 washers.

Depending on the joint configuration, WT PANEL panels can be butt joined by sealing the joints with AKTI-SEAL 201 adhesive.

In cases where the structural joint opening requires it, several WT PANEL elements can be used side-by-side to achieve the required overall width according to the design.

Complete installation by making a continuous joint rounded edge with AKTI-SEAL 201 at the base of the laid panels, along the entire length of the joint.

Laying on sloped construction joint on bed (see detail FIG. 3)

Identify, at the design or site organisation stage, the areas where casting is planned.

In these areas, lay WT PANEL panels on the surface of the lean concrete using ULTRATAK or BI MASTIC (see relevant data sheets) and if necessary, mechanically fix them with nails and FIX 5 washers.

Check the complete adhesion of WT PANEL to the laying surface, in order to avoid possible seepage or unwanted passage of concrete underneath it during subsequent casting phases.

The execution of the reinforced concrete castings must be coordinated so that the shot line coincides exactly with the band prepared by laying the WT PANEL.

To facilitate this, it is advisable to use wooden strips or other fasteners to clearly delimit the casting at the planned points.

Laying on reinforced concrete slab head against provisional structures (see detail FIG. 4)

Lay WT PANEL panels in the area where the head of the reinforced concrete slab will cut into it, fixing them on the laying surface.

If the AMPHIBIA 3000 GRIP waterproofing membrane has already been laid, WT PANEL panels can be applied directly onto it, using suitable bonding and/or fixing with nails and FIX 5 washers, before the reinforced concrete structure is built.

Alternatively, if only the spot sealing of this discontinuity is required, the laying of WT PANEL must be carried out directly on the surface of the provisional works, suitably levelled, in the band impacted by the reinforced concrete slab.



References available at www.volteco.com

WARNINGS - IMPORTANT NOTES

Protect WT PANEL from contact with standing water in case of excessive delay of confining with cast concrete.

PLEASE NOTE: For installations with polluted terrains or for special design situations (e.g. large joints, diaphragm joints), contact the Volteco Technical Service

PACKAGING AND STORAGE

WT PANEL is available in the following formats:

- WT P 250 size: 250 x 5 mm - length: 10 m
- WT P 125 size: 125 x 5 mm - length: 1.20 m

The products must be stored in a dry place protected from sun and humidity.

PHYSICAL AND TECHNICAL SPECIFICATIONS

Specification	Declared performance
WT P 250	-
Dimension	250 mm x 10 m ($\pm 10\%$)
Thickness	5 mm
Weight	14,0 $\pm$ 0,7 kg
Volumetric expansion (7 days)	200%
WT P 125	-
Dimension	125 mm x 1,2 m ($\pm 10\%$)
Thickness	5 mm
Weight	0,8 $\pm$ 0,04 kg
Volumetric expansion (7 days)	200 %

WATCH VIDEOS AND INSIGHTS

Safety Data Sheets

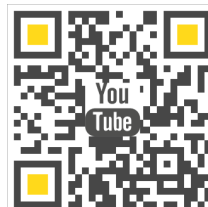
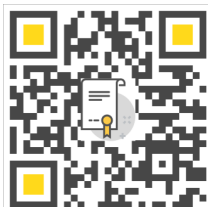
Declaration of
performance

Specifications

Technical drawings
and BIM

EPD Declaration

YouTube Video



SAFETY

Refer to the related Safety Data Sheet.

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The above clarifications extend to the pre-post-sales technical/commercial information of the commercial network.

ANNEXES

