# WT CONSTRUCTION



### PRODUCT DESCRIPTION

WT CONSTRUCTION is a HYDRO-EXPANSIVE profile based on AMPHIBIA copolymer in EPDM rubber, reinforced in the center with a CO-EXTRUDED steel MESH that stabilizes and directs the volumetric expansion.



VOLTECO WATERPROOF TECHNOLOGY







#### How it works

WT CONSTRUCTION, in contact with water, can increase the initial volume by up to 5 times while maintaining the density and adapting the shape to the small gaps that are often present in concrete castings.

WT CONSTRUCTION ensures the sealing of construction joints, even when subjected to considerable hydraulic pressure.



### References available at www.volteco.com

PACKAGING AND STORAGE	WT CONSTRUCTION is available in the following formats: WT C 20.10 is packaged in a cardboard box containing 30 m complete with nails for fastening. WT C 25.15 is packaged in a cardboard box containing 21 m complete with nails for fastening. The products must be stored in a dry place protected from sun and humidity.
WARNINGS - IMPORTANT NOTES	<ul> <li>WT CONSTRUCTION cannot be used as a dilatation joint.</li> <li>WT CONSTRUCTION must be used on walls that are thick enough to guarantee a minimum cover of 8 cm on the sides.</li> <li>WT CONSTRUCTION must be placed on the application surfaces, ensuring no material remains between the product and the surface itself.</li> <li>Spacers or tie rods of the vertical casting must be placed at a minimum distance from the horizontal plane, of no less than 5÷10 cm (see FIG. 1).</li> <li>PLEASE NOTE: Contact the Volteco Laboratory for any preventive tests when applying the product in the presence of water with a high salt concentration.</li> </ul>

#### PHYSICAL AND TECHNICAL **SPECIFICATIONS**

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Specification	Values	
Specific weight	1.02 g/cm <sup>3</sup>	
Application temperature	-15°C +50°C	
Colour	black	
Feature	Test method	Result/Classification
Reaction to fire	EN ISO 11925-2 EN 13501-1	Class E
Dimensions WT C 20.10 WT C 25.15	EAD 2.2.2	20x10 mm (± 10%) 25x15 mm (± 10%)
Impermeability under end-use conditions	EAD 2.2.3	20 m water column / waterproof up to 5 bar
Swelling pressure WT C 20.10 WT C 25.15	EAD 2.2.6	1,2 N/mm² 1,4 N/mm²



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Feature	Test method	Re	sult/Classification		
Expansion in saline water (3%)		> 1	> 100%		
Hydraulic seal on 5 mm crack with expansion of 100%	No passage up to 150 kPa				
Feature	Test method	Test liquid	Time until constant mass is achieved	Change in mass	
Expansion in contact with different liquids	EAD 2.2.4	Deionised water Alkaline solution Acid solution	25 d 14 d 24 d	1004 % 455 % 474 %	
<i>First expansion cycle</i> <i>Reversibility of the expansion process</i>	EAD 2.2.5	Deionised water Alkaline solution Acid solution	16 d 16 d 23 d	1794 % 479 % 503 %	
Second expansion cycle Reversibility of the expansion process	EAD 2.2.5	Deionised water Alkaline solution Acid solution	14 d 14 d 21 d	1855 % 419 % 436 %	
	<ul> <li>the expansion proc</li> <li>the expansion proc</li> </ul>	ess is reversible ess begins immediately			
SAFETY	Refer to the related Safety Data Sheet.				
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ANNEXES









