

**ECOFLEX V****Description**

Flexible synthetic waterproofing membrane in plasticised vinyl chloride (PVC-P), obtained through a co-extrusion process. Suitable for the waterproofing of tunnels and underground structures. Made in different colors on both sides that allows you to identify damage caused to the membrane during installation. High resistance to attack by microorganisms present in the soil, mechanical strength. Resistance to low temperatures.

**System certifications**

QMS (Quality Management System) certification according to ISO 9001.

**Product certifications**

Regulation CPR 305/2011/EU.

Certificate No. 1370-CPR-1210, harmonised standard EN13491.

Certificate No. 1370-CPR-0101, harmonised standard EN13967.

**Fields of application****Specific use**

The ECOFLEX V membrane is suitable for the realisation of synthetic waterproofing systems for underground structures not directly exposed to ultraviolet radiation:

- foundations;
- retaining walls;
- natural and artificial tunnels.

**Application**

The ECOFLEX V membranes are laid dry totally or partially independent by welding on PVC fastening disks. The overlaps between the sheets are welded with automatic or manual hot melting.

**Note:** The installation must be carried out by qualified installers and approved by IMPER ITALIA srl.  
Any accessories and finishing elements must be compatible and in any case manufactured or approved by IMPER ITALIA srl.

## TECHNICAL FEATURES

Features	EN Standards	U.M.	Tolerance	Values			
<b>Thickness</b>	EN 1849-2	mm	(-5/+10%)	1,2	1,5	2,0	3,0
<b>Mass per unit area</b>	EN 1849-2	kg/m <sup>2</sup>	(-5/+10%)	1,60	2,00	2,66	4,00
<b>Cold flexibility</b>	EN 495-5	°C	≤	-25			
<b>Tensile strength</b>	EN 12311-2	N/mm <sup>2</sup>	± 2	15			
<b>Elongation at break</b>	EN 12311-2	%	± 10	250			
<b>Water impermeability (24 h at 1 MPa)</b>	EN 1928	-	-	No leaks			
<b>Resistance to impact</b>	EN 12691	mm	≥ ± 0,25	500	750	1000	1800
<b>Resistance to static loading</b>	EN 12730 EN 12236	kg kN	≥	15 1,25	20 1,5	20 2,5	20 3,0
<b>Microbiological resistance</b>	EN 12225		-	Compliant			
<b>Resistance to roots</b>	UNI CEN/TS 14416		-	No penetration			
<b>Tear strenght</b>	EN 12310/2	N/mm	≥	100			
<b>Joint strength</b>	EN 12317/2		-	Break outside the joints			
<b>Resistance to oxidation</b>	EN 14575		-	Pass the test			
<b>Thermal aging</b>	EN 1296		-	Pass the test			
<b>Reaction to fire</b>	EN 13501-1	Euroclass	-	E (*)			

(\*) Internal Report

## PRODUCTION STANDARDS

<b>Thickness (**)</b>	mm	1,2	1,5	2,0	3,0
<b>Width</b>	m	2,10	2,10	2,10	2,10
<b>Length (**)</b>	m	25	25	20	20
<b>Colour</b>	Light Green / Black				

(\*\*) Different thicknesses and lengths are available on demand and for minimum quantities.

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Considerando le diverse situazioni d'impiego dei prodotti e l'intervento di fattori da noi non dipendenti (supporti, condizioni di esercizio, in osservanza delle prescrizioni, ecc.), non è possibile alla IMPER ITALIA srl assumere responsabilità in merito ai risultati ottenuti. Il progresso unito alla costante ricerca dei massimi livelli prestazionali possono apportare - nel tempo - modificazioni alle informazioni contenute in questo stampato, senza che la IMPER ITALIA srl debba darne preavviso a tutti gli interessati.



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