TECHNICAL DATA SHEET



ECOFLEX V (E

Description

Flexible synthetic waterproofing membrane in plasticised vinyl chloride (PVC-P), obtained through a co-extrusion process. Single layer membrane in two-colour version (signal-layer). The different colours on the two sides, light on the exposed surface and dark behind, make it possible to immediately identify any damage to the membrane during installation.

Characterised by high mechanical resistance, resistance to the attack of micro-organisms in soil, to roots, to explosion, to low temperatures.

System certifications

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

Product certifications

Regulation CPR 305/2011/EU.

Certificate No. 1070-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:

- 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					
Thickness	EN 1849-2	mm	(-5/+10%)	1,5	2,0	3,0			
Mass per unit area	EN 1849-2	kg/m²	(-5/+10%)	2,0	2,7	4,0			
Cold flexibility	EN 495-5	°C	<u>≤</u>	-35°					
Tensile strength	EN 12311-2	N/mm²	<u>+</u> 2	15					
Elongation at break	EN 12311-2	%	<u>+</u> 10	250					
Water impermeability (24 h at 1 MPa)	EN 1928	-	-	No leaks					
Resistance to impact	EN 12691	mm	≥	750	1000	1800			
Resistance to static loading	EN 12730 EN 12236	kg kN	≥ ± 0,25	20 1,5	20 2,5	20 3,0			
Microbiological resistance	EN 12225	-	-	Compliant					
Resistance to roots	UNI CEN/TS 14416	-	-	No penetration					
Tear strenght	EN 12310/2	N/mm	≥	100					
Resistance to oxidation	EN 12317/2		-	Pass the test					
Resistance to joints	EN 14575		-	Break outside the joints					
Thermal aging	EN 1296		-	Pass the test					
Reaction to fire	EN 13501-1	Euroclass	-	E (*)					

^(*) Internal Report

PRODUCTION STANDARDS								
Thickness (**)	mm	1,5	2,0	3,0				
Width	m	2,10	2,10	2,10				
Length (**)	m	25	20	20				
Colour		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 sri 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 sri debba darne preavviso a tutti gli interessati.











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