

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			
Thickness	EN 1849-2	mm	(-5/+10%)	1,2	1,5	2,0	3,0
Mass per unit area	EN 1849-2	kg/m ²	(-5/+10%)	1,60	2,00	2,66	4,00
Cold flexibility	EN 495-5	°C	≤	-25			
Tensile strength	EN 12311-2	N/mm ²	± 2	15			
Elongation at break	EN 12311-2	%	± 10	250			
Water impermeability (24 h at 1 MPa)	EN 1928	-	-	No leaks			
Resistance to impact	EN 12691	mm	≥ ± 0,25	500	750	1000	1800
Resistance to static loading	EN 12730 EN 12236	kg kN	≥	15 1,25	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			
Joint strength	EN 12317/2		-	Break outside the joints			
Resistance to oxidation	EN 14575		-	Pass the test			
Thermal aging	EN 1296		-	Pass the test			
Reaction to fire	EN 13501-1	Euroclass	-	E (*)			

(*) Internal Report

PRODUCTION STANDARDS

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

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

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