

LEVIFLEX



Nature of product

The multi-year experience of IMPER ITALIA in the formulation and production of products with a weight/thickness ratio of less than 1 is now consolidated in the new LEVIFLEX series. The MBDP (Polymer Bitumen Distilled Membranes) of the LEVIFLEX series cover most of the requests currently available on the market. The production is carried out by coextrusion of a polymer-based and micro-compatibilising bitumen compound created with special dosing and dispersion systems, and with a non-woven polyester reinforcement of continuous filament with dimensional stability controlled with longitudinally positioned mineral fibres, laid in the thickness of the membrane.

The series is produced in 2 versions, corresponding to the cold flexibility characteristics of the membranes (-20 and -10 °C, according to EN 1109). For each version there are two black, talc-treated membrane, 3 and 4 mm thick, and the self-protected slate flake (ARD) one, weighing 4.5 kg/m².

The lower surface is instead coated with TERMOTENE film which facilitates application and improves the adhesion of the membrane to the surface to be waterproofed.

Intended use

LEVIFLEX membranes are suitable for the creation of waterproofing works of various types. Moreover, compared to the use on roofs and in foundations, the different versions can be used with reference to the following diagram ⁽¹⁾. For clarification on the systems that can be obtained, consult the Technical Services of IMPER ITALIA srl.

PRODUCTS	FIELDS OF USE ⁽¹⁾							
	Roofing (EN 13707)						Underlay (EN 13859-1)	Foundations (EN 13969)
	Exposed			Roof gardens	Under heavy-duty protection			
	Single-ply	Multi-ply		Root-resistant	Single-ply	Multi-ply	Multi-ply	
Upper		Lower						
LEVIFLEX 20		•	•			•	•	
LEVIFLEX 10		•	•			•	•	
LEVIFLEX ARD 20/10		•					•	

⁽¹⁾ In compliance with the applicable AISPEC/SITEB-MBP Guidelines.

Application procedure

The application methods are a determining factor capable of characterising the performance of the waterproof covering itself. In general terms, we remind you to carry out careful preparation and cleaning of the substrate followed by the priming treatment with a suitable primer (applied with a long-handled brush, roller, spray), with a consumption of $0.2 \div 0.3 \text{ l/m}^2$ and in any case variable with the degree of porosity of the substrate itself. The membrane will be applied with the aid of a propane gas torch; particular care must be given to performing of sealing between the sheets always laid with staggered joints: the lateral joints must be installed with overlap of $8 \div 10 \text{ cm}$ and the end joints with overlapping of $12 \div 15 \text{ cm}$. For correct and detailed documentation, as well as to identify the most effective intervention solutions in all circumstances, we recommend consulting the Technical Services of IMPER ITALIA srl which are in any case available for the consultation of particular problems as well as to provide all the assistance necessary for the best use of these materials.

TECHNICAL SPECIFICATIONS ⁽¹⁾

Specifications	EN Standards	Unit of Measure	Tolerances ⁽¹⁾	LEVIFLEX		
				20	10	ARD 20/10
Roll dimensions	1848-1	m	≥	10 x 1 (-1%)		
Thickness	1849-1	mm	±10%	3 / 4		-
Mass per unit area	1849-1	kg/m ²	±10%	2.7 / 3.6		4.5
Watertightness	1928-B	kPa	≥	60		
Cold flexibility	1109	°C	≤	-20	-10	-20 / -10
Flow resistance at elevated temperature	1110	°C	≥	120		
L/T tensile strength	12311-1	N/5cm	±20%	700 / 500		
L/T tensile elongation	12311-1	%	±15	40 / 45		
L/T dimensional stability	1107-1	%	≤	0.25 / 0.25		
Static puncture	12730	kg	≥	15		
Dynamic puncture	12691-B	mm	≥	1,250		
L/T tear resistance	12310-1	N	±30%	170 / 210		
Steam permeability	1931	μ	≥	20,000		
External fire behaviour	13501-5	EC ⁽⁴⁾	-	Froof		
Fire reaction	13501-1	EC ⁽⁴⁾	-	E ⁽⁵⁾		

Notes: (1) In compliance with the applicable AISPEC/SITEB-MBP Guidelines.

(2) Euroclass.

(3) Internal Report.

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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.

