



TECHNICAL DATA SHEET No. 1520.20.2.25U REV.2



**UNIFLEX – 150/200
PVC MEMBRANE 1.5 mm / 2.0 mm**



PRODUCT DESCRIPTION:

The product consists of a homogeneous compound obtained by extrusion forming of high-quality polyvinyl chloride (PVC) formulations, process additives and mineral fillers. The upper surface of the membrane is beige and serves as a signal layer, allowing rapid detection of possible damage during installation. The lower surface is black. The membrane can be manufactured in various thicknesses.

FIELDS OF APPLICATION:

UNIFLEX is used for waterproofing in the following applications:

- Protection of underground infrastructure and foundation systems.
- Accessible roofs and stylobate structures.
- Tunnels, metro passages and underground car parks.
- Insulating layer for landfills, pits, process ponds and reservoirs.

ADVANTAGES AND DISTINCTIVE FEATURES:

- High tensile strength and chemical resistance.
- Resistance to biological attack.
- Easy reparability and a signal layer facilitating visual inspection during installation.
- Large roll dimensions ensure faster installation.
- A special guide line is provided on the surface to facilitate welding of PVC sheets to one another.

LABORATORY TEST RESULTS

Parameter	Measured value		
Parameter	1.5 mm	2.0 mm	Test method
Visible defects	None		
Elongation at break	≥380%	≥400%	EN 12311-2:2000
Tensile strength (longitudinal)	≥17 MPa	≥19 MPa	EN 12311-2:2000
Tensile strength (transverse)	≥16 MPa	≥18 MPa	EN 12311-2:2000
Tear resistance	≥110 N	≥130 N	EN 12310-1:1999
Static puncture resistance	≥20	≥25	
Impact resistance at low temperature	-25°C	-25°C	
Low-temperature flexibility	-30 °C		EN 495-5:2013
Watertightness (1 MPa, 24 h)	Pass		EN 1928:2000



Dimensional change after 6 hours at 80°C	≤1.5%		EN 1107-2:2011
Peel resistance of welded seam	≥300 N/50 mm		EN 12317-2
Tensile strength of welded seam	≥610 N/50 mm		EN 12316-2
Resistance to aggressive media (chemical resistance)	NaCl, Ca(OH) ₂ , H ₂ SO ₃ , H ₂ SO ₄ , NaHCO ₃ , NaOH	Change in properties – ≤10	EN 1847:2009
Resistance to mould growth	Not more than 3 points		EN 12225
Dynamic indentation resistance on a hard base (impact resistance), mm	UNIFLEX 150	UNIFLEX 200	
	700 mm	1400 mm	
Dynamic indentation resistance on a soft base (impact resistance), mm	1000 mm	1800 mm	
Potential service life	100 years		

Property	Unit	Permissible tolerance	Value	
Length	m	±0.3	20	
Width	m	±0.01	2.1	
Thickness	mm	±0.05	1.5 / 2.0	EN 1849-2:2011
Weight	kg/m ²	±0.1	1.95 / 2.60	EN 1849-2:2011

NOTE: These technical data are provided on the basis of laboratory testing and production control results. The company reserves the right to make changes to the product's technical characteristics for the purpose of improvement.

TRANSPORTATION RULES:

The product shall be transported only in covered vehicles, on pallets, in a horizontal position, with a maximum of 10 rolls per pallet and a stacking height not exceeding 4 rolls. At the construction site, transportation of the material to the place of installation shall be carried out in the manufacturer's packaging, manually or by mechanical means that do not damage the material.

STORAGE CONDITIONS:

Rolls shall be stored only in dry, enclosed warehouse premises or in specially designated covered outdoor areas, on pallets, in the manufacturer's packaging, with a maximum of 10 rolls per pallet and a stacking height not exceeding 4 rolls, in a horizontal position.

PACKAGING INFORMATION:

PVC-based membranes are supplied on wooden pallets. Each roll may be packaged in transparent or opaque polyethylene film in order to protect the product during transportation and storage.