

# TECHNICAL SHEET

## IZOTEKT P5 M

### Waterproofing membrane with a polyester reinforcement and with plastomere modified bitumen

**Product description** IZOTEKT P5 M is a waterproofing membrane made from a polyester reinforcement that is coated on both sides with plastomere modified bitumen. The membrane is on the upper side protected by fine sand and on the bottom side by polymeric sheeting.

**Characteristics of the product** IZOTEKT P5 M meets the demands of the standard EN 14695. The additions of polymers give high resistance against ageing, higher temperatures and shearing forces. The polyester reinforcement gives high elasticity and resistance to static and dynamic strains.

Characteristic	EN Method	Unit	Value
Reinforcement	Polyester fleece		
Surface protection	sand / polymeric sheeting		
Length	1848-1	m	≥ 7,5
Width	1848-1	m	≥ 1
Straightness	1848-1	20 mm/10m	pass
Thickness	1849-1	mm	> 5,0
Layer thickness of the bituminous compound under reinforcement	1849-1	mm	> 3,0
Layer thickness of the bituminous compound above the reinforcement	1849-1	mm	0,5 to 1,3
Flexibility at low temperature	1109	°C	< - 5
Flow resistance at elevated temperature	1110	°C	> 130
Tensile strength <ul style="list-style-type: none"> <li>longitudinal</li> <li>transversal</li> </ul>	12311-1	N/50mm	> 700 > 700
Elongation <ul style="list-style-type: none"> <li>longitudinal</li> <li>transversal</li> </ul>	12311-1	%/50mm	> 40,0 > 40,0
Shear strength	RVS 15362	kPa	> 80
Dimensional stability <ul style="list-style-type: none"> <li>longitudinal</li> <li>transversal</li> </ul>	1107-1	%	≤ 0,6 ≤ 0,6
Dimensional stability <ul style="list-style-type: none"> <li>longitudinal</li> <li>transversal</li> </ul>	1107-1 (1h/160°C)	%	≤ 1,0 ≤ 1,0
Initial amount of mineral surface protection	12039 (annex B)	g/m <sup>2</sup>	300±100
Water absorption	14223	%	< 2,0
Flexibility at low temperature after artificial aging by long term exposure to elevated temperature (12 weeks at 70 °C)	1296/1109	°C	< 0
Flow resistance at elevated temperature after artificial aging by long term exposure to elevated temperature (12 weeks at 70 °C)	1296/1110	°C	> 100
Bond strength (at 23°C)	13596	N/mm <sup>2</sup>	> 0,5
Shear strength (at 23°C)	13653	N/mm <sup>2</sup>	> 0,2
Crack bridging ability (at -10°C)	14224	/	pass
Compatibility by heat conditioning (50°C/90 days) bond strength	14691	%	> 75
Resistance to compaction of asphalt layer	14692	/	pass
Behavior of bitumen sheet during application of mastic asphalt	14693	/	pass
Content of dangerous substances	Annex ZA	/	no

### Use and installation

IZOTEKT P5 M is used as horizontal waterproofing of concrete bridge decks and other trafficked areas of concrete. It is installed on preliminary prepared surfaces with epoxy resin primer by completely torching the surface of the membrane with a gas torch, or by hot bonding with the hot bituminous adhesive compound BITU M.

### Storage

The rolls must be stored in an upright position, protected against dampness and extreme temperatures. In winter it is recommended to store the rolls before installation for 24 hours at a temperature of over + 5°C.

### Disposal considerations of waste

For the removal of waste of product, it is necessary to follow the valid local environmental regulations. Waste classification: 17 03 02 bituminous mixtures other than those mentioned in 17 03 01.



The product is in conformity with **EN 14695:2010**.

The system of quality and handling of the environment is conforming with EN ISO 9001 and EN ISO 14001.