

TECHNICAL SHEET

IZOELAST REFLEX P4

Waterproofing membrane with a polyester reinforcement and with elastomere modified bitumen

Product description

IZOELAST REFLEX P4 is a waterproofing membrane made from a polyester reinforcement that is coated on both sides with elastomere modified bitumen. The membrane is on the upper side protected by mineral granules with 10 cm selvedge overlap without granules. Bottom side of membrane is protected by polymeric sheeting.

Characteristics of the product

IZOELAST REFLEX P4 meets the demands of the standards EN 13707, 13969 type A and type T. The additions of elastomere polymers to bitumen and the surface protection of membrane by mineral granules give to membrane high resistance against ageing, UV-light and flexibility at low temperatures. The polyester reinforcement gives elasticity and resistance to static and dynamic strains.

Characteristic	EN Method	Unit	Value
Reinforcement	Polyester fleece		
Surface protection	mineral granules / polymeric sheeting		
Length	1848-1	m	≥ 7,5
Width	1848-1	m	≥ 1
Straightness	1848-1	20mm/10m	pass
Thickness	1849-1	mm	≥ 4,2
Water tightness	1928	kPa	≥ 100
Durability of water tightness against artificial ageing (12 weeks at 70 ° C)	1296/1928	kPa	≥ 100
Flexibility at low temperature	1109	°C	≤ -15
Flow resistance at elevated temperature	1110	°C	≥ 100
Resistance to tearing	12310-1	N	* NPD
• Longitudinal, transversal			
Shear resistance of joints	12317-1	N/50 mm	* NPD
• Longitudinal, transversal			
Dimensional stability	1107-1	%	≤ 0,3
• Longitudinal, transversal			≤ 0,3
External fire performance	13501-5	Class	F _{ROOF}
Reaction to fire	13501-1	Class	E
Chemical resistance	1847/13707 Annex C	-	pass
Resistance to static loading	12730/A, B	kg	≥ 10
Resistance to impact	12691/B, A	mm	≥ 900
Tensile properties	12311-1	N/50mm	≥ 600
• longitudinal			≥ 550
• transversal			
Elongation	12311-1	%/50mm	≥ 35,0
• longitudinal			≥ 35,0
• transversal			
Resistance to root penetration	13948	-	* NPD
Flexibility at low temperature after artificial aging by long term exposure to elevated temperature (12 weeks at 70°C)	1296/1109	°C	≤ -10
Flow resistance at elevated temperature after artificial aging by long term exposure to elevated temperature (12 weeks at 70°C)	1296/1110	°C	≥ 90
Adhesion of granules	12039	%	≤ 30
Content of dangerous substances	Annex ZA	/	does not contain

* NPD – no performance determined

Use and installation

IZOELAST REFLEX P4 is used in two or more layered waterproofing of flat roofs as top layer, protecting it against ageing and UV-light. Due to its surface protection with mineral granules, it is also used in the details of underground waterproofing, where good adhesion of the concrete to the waterproofing is required. It is applied by welding with propane gas burner on the under-layer bitumen membrane with 10 to 12 cm longitudinal and 12 to 15 cm cross overlaps.

Storage and transport

The rolls have to 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. The carrier is responsible for the correct transport.

**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 13707:2004+A2:2009, EN 13969:2004 and EN 13969:2004/A1:2006 Type A and Type T.**

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