

# TECHNICAL SHEET

## IZOTEKT REFLEX P5 APAO

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

**Product description** IZOTEKT REFLEX P5 APAO is a waterproofing membrane made from a polyester reinforcement that is coated on both sides with APAO 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** IZOTEKT REFLEX P5 APAO meets the demands of the standard EN 13707. The additions of APAO polymers to bitumen and the surface protection of membrane by mineral granules give to membrane high resistance against ageing, UV-light and higher temperature, 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	≥ 5,2
Water tightness	1928	kPa	≥ 400
Flexibility at low temperature	1109	°C	≤ -25
Flow resistance at elevated temperature	1110	°C	≥ 140
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  ≤ 0,3
• Longitudinal, transversal			
External fire performance	13501-5	Class	F <sub>ROOF</sub>
Reaction to fire	13501-1	Class	E
Chemical resistance	1847/13707 Annex C	-	pass
Resistance to static loading	12730/A	kg	* NPD
Resistance to impact	12691	mm	* NPD
Tensile properties	12311-1	N/50mm	≥ 780 ≥ 630
• longitudinal			
• transversal			
Elongation	12311-1	%/50mm	≥ 35,0 ≥ 35,0
• longitudinal			
• 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	* NPD
Flow resistance at elevated temperature after artificial aging by long term exposure to elevated temperature (12 weeks at 70°C)	1296/1110	°C	≥ 140
Adhesion of granules	12039	%	≤ 30
Content of dangerous substances	Annex ZA	/	does not contain

\* NPD – no performance determined

**Use and installation** IZOTEKT REFLEX P5 APAO is used in two or more layered waterproofing of flat roofs as top layer, protecting it against ageing and UV-light. 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**.

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