

ISOPOL MINERAL

DESCRIPTION	<p>ISOPOL MINERAL is a plastomeric modified bitumen waterproofing membrane (APP), industrially manufactured by impregnation of the reinforcement with the waterproofing compound based on distilled bitumen modified with polyolefin polymers, which gives to the compound excellent technical characteristics.</p> <p>The composite reinforcement, made of nonwoven polyester in combination with fiberglass, conveys good mechanical characteristics, excellent dimensional stability and elastic performance.</p> <p>Shaping of sheets, straightness, dimensional and surface uniformity are accomplished by hot calendaring of the mass at hot melt fluid state.</p> <p>It is a self-protected membrane. The upper surface is coated with coloured slate chips and selvedge slate free at one side for easy welding overlap. The lower surface is coated with a thermo-fusibile polyolefin film.</p>
FIELD OF APPLICATION	<p>ISOPOL MINERAL is particularly suitable as top layer in multi-layer waterproofing systems, with compatible membranes, or underlayer of discontinuous roofing.</p> <p>General roofing, foundations, on or under floors or ground slabs, wall constructions, under tiles, are valid examples of the design application of this product. It is not suitable for roof gardens. It can be applied onto every substrate (concrete, masonry, steel, wood, insulation panel, membrane, etc.) and under heavy protection.</p> <p>The excellent mechanical characteristics and high level thermo-dynamic stability make it suitable for any climate conditions and all the situations where a barrier against water is required.</p>
METHOD OF INSTALLATION	<p>The excellent thermoplastic properties of the waterproofing compound allow the application with torch-on system or hot air generator. In particular situations, it could be applied with appropriate sealants or mechanical fastenings.</p> <p>The application of the membrane must be carried in good weather conditions and after the substrate has been adequately cleaned and prepared.</p>

TECHNICAL DATA

TEST METHOD	NORM	UNIT	TOLERANCE	VALUE
Weight	EN1849-1:1999	kg/m ²	±10%	4-4,5-5-5,5
Roll length	EN1848-1:1999	m	-1%	10
Roll width	EN1848-1:1999	m	-1%	1
Straightness	EN1848-1:1999	-	20 mm / 10 m	PASSED
Flexibility at low temperature (pliability)	EN1109:1999	°C	<=/	-10
Heat flow resistance	EN1110:2010	°C	>=/	120
Watertightness	EN1928-B:2000	kPa	>=/	200
Watertightness	EN1928-A:2000 W1	kPa	>= 2 kPa/2h	PASSED
Water vapour transmission properties	EN1931:2000	μ	-	20.000
				LONG. TRANS.
Tensile properties: maximum tensile strength	EN12311-1:1999	N/50 mm	-20%	550 400
Tensile properties: elongation at break	EN12311-1:1999	%	-15	40 40
Resistance to static loading	EN12730-A:2001	kg	>=/	-
Resistance to impact	EN12691-A:2001	mm	>=/	-
Durability: flexibility at low temperature after artificial ageing	EN1296:2000/EN1109:1999	°C	+15	NPD
Durability: flow resistance at elevated temperature after artificial ageing	EN1296:2000/EN1110:2010	°C	-10	110
Durability: watertightness after artificial ageing	EN1296:2000/EN1928-B:2000	kPa	>= 60	PASSED
Durability: visual defects after artificial ageing	EN1297:2005/EN1850-1:1999	-	PASSED	-
Durability: watertightness against chemicals	EN1296:2000/EN1847	-	PASSED	NPD
Reaction to fire	EN11925-2/EN13501-12005	Classes	-	F
Watertightness after stretching a low temperature	EN13897:2004	%	>=/	-
Determination of adhesion of granules (Loss)	EN12039-1999	%	<30	PASSED
Root resistance	EN13948	-	PASSED	NPD
Visible defects	EN1850-1	-	-	PASSED

PACKING AND STORAGE	The product is packed as standing rolls on wooden pallets wrapped with thermoshinking protective hoods. Rolls must be stored in the upright position, without stacking the pallets to avoid deformations which can compromise the correct application of the membrane. The product must be stored indoor, protected from heat and frost.
DISPOSAL	The product does not contain dangerous substances and can be considered as household rubbish or industrial waste (identification code EWC170302).
STANDARDS	EN13707; EN13969 - 0120 - GB 06/69407; EN13859-1 - 1211 - Ta51259/06e

TECHNICAL NOTES: For further information refer to general laying instruction guide of technical documentation