

# POLIBIT H-P MINERAL



## Description:

POLIBIT H-P 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 good technical characteristics.

The composite reinforcement, made of nonwoven polyester in combination with fibreglass, conveys good mechanical characteristics, excellent dimensional stability and elastic performance.

Shaping of sheets, straightness, dimensional and surface uniformity are accomplished by hot calendaring of the mass at hot melt fluid state.

It is a self-protected membrane. The upper surface is coated with Black or Dark Grey or Light Grey coloured slate chips or with fine slate chips "Black Diamond" and selvedge slate free at one side for easy welding overlap. The lower surface is coating with a thermo-fusible polyolefin film.

## Field of Application:

POLIBIT H-P MINERAL is particularly suitable as a top layer in multi-layer waterproofing systems, with compatible membranes, or underlayer of discontinuous roofing. 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.

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.

## Technical Data:

	Norm	Value	Unit	Tolerance
Weight	EN1849-1:1999	5	(kg/m <sup>2</sup> )	± 10%
Roll length	EN1848-1:1999	8	(m)	-1%
Roll width	EN1848-1:1999	1	(m)	-1%
Straightness	EN1848-1:1999	Passed	-	20 mm / 10 m
Flexibility at low temperature (pliability)	EN1109:2013	-15	(°C)	≤
Heat flow resistance	EN1110:2010	130	(°C)	≥
Watertightness	EN1928-B:2000	60	(kPa)	≥
Water vapour transmission properties	EN1931:2000	20.000	(μ)	-

## Method of Installation:

The good thermoplastic properties of this waterproofing compound allow the application with torch-on system or hot air generator. In particular situation, it could be applied with appropriate sealants or mechanical fastenings.

The application of the membrane must be carried out in good weather conditions and after the substrate has been adequately cleaned and prepared.

## Packing and Storage:

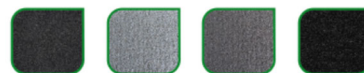
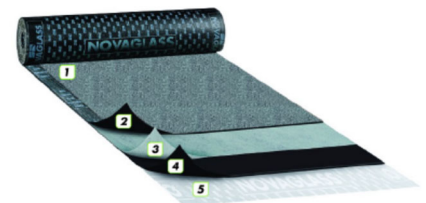
The product is packed as standing rolls on wooden pallets wrapped with thermoshrinking protective hoods. Rolls must be stored in an upright position, without stacking the pallets to avoid deformations which can compromise the correct application of the membrane. The product must be stored indoors, protected from heat and frost.

## Intended Use or Uses:

Flexible sheets for waterproofing: Reinforced bitumen sheets for roof waterproofing.

Flexible sheets for waterproofing: Bitumen damp proof sheets including bitumen basement tanking sheets.

1. Mineral protection
2. Waterproofing mass
3. Reinforcement
4. Waterproofing mass
5. Torch-off film



**Technical Data:**

	Norm	Value M.d.C.d.	Unit	Tolerance
Tensile properties: maximum tensile strength	EN12311-1:1999	700 / 600	(N/50mm)	-20%
Tensile properties: elongation at break	EN12311-1:1999	40 / 40	(%)	-15
Resistance to tearing (nail shank)	EN12310-1:1999	150 / 150	(N)	-30%
Dimensional stability	EN1107-1:1999	±0.3 / ±0.3	(%)	≤
Peel resistance of joints	EN12316-1:1999	NPD / NPD		
Shear resistance of joints	EN12317-1:1999	700 /600	(N/50mm)	-20%
Resistance to static puncture	EN12730-A:2015	15	(kg)	≥
Resistance to impact	EN12691-A:2006	1000	(mm)	≥
External fire performance (note 1)	EN1187:2012/ EN13501-5:2005 +A1:2009	Froof	Class	-
Reaction to fire	EN11925-2:2010/ EN13501-1:2007 +A1:2009	E	Class	-
Root resistance	EN13948:2007	NPD		
Determination of adhesion of granules (loss)	EN1297:2004	Passed	(%)	<30
Visible defects	EN1850-1:2001	Passed	-	-
Durability: Flexibility at low temperature after artificial ageing	EN1296:2000/ EN1109:2013	NPD		
Durability: Flow resistance at elevated temperature after artificial ageing	EN1296:2000/ EN1110:2010	1000	(°C)	-10
Durability: Watertightness after artificial ageing	EN1296:2000/ EN1928-B:2000	Passed	(kPa)	≥ 60
Durability: Watertightness against chemicals	EN1296:2000/ EN1847:2009	NPD		

**Norms and Certifications:**

EN13707; EN13969 -1381 - 1381-CPR-415

Damp proof  
courses

Top layer



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