

NOVABOND PONTI

WPBIT0310.c

DESCRIPTION	<p>NOVABOND PONTI 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 of the latest generation, which gives to the compound superior technical characteristics. The composite reinforcement, made of nonwoven spunbond polyester in combination with fiberglass, close to the upper face of the membrane to increase the mechanical resistance, conveys high mechanical characteristics, high perforation resistance, excellent dimensional stability and elastic performance.</p> <p>The reinforcement is positioned towards the external face to oppose greater mechanical resistance to the overlying loads.</p> <p>Shaping of sheets, straightness, dimensional and surface uniformity are accomplished by hot calendering of the mass at hot melt fluid state.</p> <p>NOVABOND PONTI is a non self-protected membrane. The upper surface is coated with anti-adhesive amorphous sand. The lower surface is coated with a thermo-fusibile polyolefin film.</p>
FIELD OF APPLICATION	<p>The high mechanical characteristics and cold flexibility combined with a high resistance to atmospheric agents allow the use of the membrane in single layer (minimum suggested thickness 5 mm) or top layer in multilayer waterproof systems (coupled with membrane compliant with EN 14695) of road paving, parking lots, bridges and viaducts. It also suitable for waterproofing systems under heavy protection such as foundations, floors or ground slabs, wall constructions, water tanks, tunnels, general roofing, as protection from acid and basic solutions 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.).</p> <p>In accordance with EN 14695 (reinforced bitumen sheets for waterproofing of concrete bridge decks and other trafficked areas of concrete), the membrane can receive the hot bituminous conglomerate layer directly on its surface.</p>
METHOD OF INSTALLATION	<p>The excellent thermoplastic properties allow the membrane to be applied with torch-on system or hot air generator and, in particular situations, with the use of compatible bituminous adhesive or by means of specific mechanical fixing. Due to the high adhesion values it can be applied to any type of substrate such as: concrete, brick, sheet metal, wood, all types of insulating panels or other compatible membranes. Must be carried in good weather conditions and when the substrate has been adequately cleaned, prepared and dry.</p> <p>When used on bridges and viaducts the laying surface must be pre-treated with RAPID PRIMER.</p>
PACKING AND STORAGE	<p>The product is packed as standing rolls on wooden pallets wrapped with thermoshrinking 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.</p>
SPECIAL INDICATIONS	
INTENDED USE OR USES	<p>Flexible sheets for waterproofing. Reinforced bitumen sheets for roof waterproofing</p> <p>Flexible sheets for waterproofing. Bitumen damp proof sheets including bitumen basement tanking sheets</p> <p>Flexible sheets for waterproofing. Reinforced bitumen sheets for waterproofing of concrete bridge decks and other trafficked areas of concrete</p>

1. Anti-adhesive surface
2. Waterproofing mass
3. Reinforcement
4. Waterproofing mass
5. Torch-off film



NOVABOND PONTI

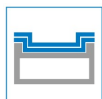
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TECHNICAL DATA

	Norm	Value			Unit	Tolerance
Thickness	EN1849-1	4	5	6	(mm)	±0,2
Roll length	EN1848-1	10	7,5	7,5	(m)	-1%
Roll width	EN1848-1	1	1	1	(m)	-1%
Straightness	EN1848-1	PASSED			-	20 mm / 10 m
Flexibility at low temperature (pliability)	EN1109	-20			(°C)	≤
Heat flow resistance	EN1110	140			(°C)	≥
Watertightness	EN1928-B	500			(kPa)	≥
Water vapour transmission properties	EN1931	20.000			(μ)	-
				M.d. C.d.		
Tensile properties: maximum tensile strength	EN12311-1	1200 / 1000			(N/50 mm)	-20%
Tensile properties: elongation at break	EN12311-1	45 / 45			(%)	-15
Resistance to tearing (nail shank)	EN12310-1	350 / 350			(N)	-30%
Dimensional stability	EN1107-1	±0,3 / ±0,3			(%)	≤
Peal resistance of joints	EN12316-1	50 / 50			(N/50 mm)	-20
Shear resistance of joints	EN12317-1	1200 / 1000			(N/50 mm)	-20%
Resistance to static puncture	EN12730-A	25			(kg)	≥
Resistance to impact	EN12691-A	1250			(mm)	≥
External fire performance (note 1)	EN1187/EN13501-5+A1	Froof			Class	-
Reaction to fire	EN11925-2/EN13501-1+A1	E			Class	-
Root resistance	EN13948	NPD				
Visible defects	EN1850-1	PASSED			-	-
Durability: Flexibility at low temperature after artificial ageing	EN1296/EN1109	-20			(°C)	+15
Durability: Flow resistance at elevated temperature after artificial ageing	EN1296/EN1110	130			(°C)	-10
Durability: Watertightness after artificial ageing	EN1296/EN1928-B	PASSED			(kPa)	≥ 60
Durability: Visual defects after artificial ageing	EN1297/EN1850-1	PASSED			-	PASSED
Durability: Watertightness against chemicals	EN1296/EN1847	NPD				
Determination of bond strength	EN13596 type 1	,5 at 8°C / 0,5 at 23°C (N/mm2)				≥
Determination of bond strength	EN13596 type 3	,5 at 8°C / 0,5 at 23°C (N/mm2)				≥
Determination of shear strength	EN13653 type 3 at 23°C	0,15			(N/mm2)	≥
Determination of compatibility after heat conditioning	EN14691 type 3 at 23°C	80			(%)	≥
Determination of crack bridging ability	EN14224 type 3	-20			(°C)	≤
Determination of resistance to compaction of the protective asphalt layer	EN14692 type 3 method 1	PASSED			-	PASSED
Determination of water absorption	EN14223	1,5			(%)	≤
Determination of behaviour of bitumen sheets during application of mastic asphalt	EN14693 type 3	20, 0,3, 20			(%, mm, %)	≤
Determination of resistance to dynamic water pressure without damage by pre-treatment	EN14694	PASSED			-	PASSED
Determination of dimensional stability at high temperature	EN1107-1; EN14695 Annex B	±1			(%)	≤
Substances dangereuses (notes 2 and 3)	-	PASSED			-	

NORMS

EN13707; EN13969; EN14695



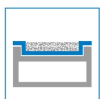
Top layer in multi-layer systems



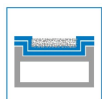
Road decks



Car park roofs



Single or double layer under paving asphalt



Multilayer systems under heavy protection



Damp proof courses



Foundations