



# PROFLEX HP-4 TECHNICAL DATA SHEET

## High Performance Heat – Fused Membrane

### DESCRIPTION

Pre-fabricated, high performance 180gram carrier, waterproofing membrane made of distilled bitumen and plastomeric polymers (APP) having a woven non-woven single strand composite polyester reinforcement, which provide the membrane with good mechanical characteristics and excellent dimensional stability.

### APPLICATION FIELDS

For the application of the membrane the use of heat is generally used by means of a gas torch or specific hot air machine. Use protective devices required by law. The application by heat is not suggested when on heat sensitive materials (polystyrene insulation).

- Coordinate the operations in a way to not cause damage to the construction elements and underground structure. Avoid to leave the structure for the night or for periods of prolonged work interruptions without having been properly sealed.
- The application surface must not have depressions, to avoid the ponding of rain water and must have a sufficient slope to guarantee a regular run off of rain. Normally this is obtained with a slope of 1.5%.
- The water drainage spouts should be sufficiently big enough to allow for rain water to be eliminated in an efficient way.
- Prepare cementitious substrates, including verticals and details, with Fill One Torch On Primer either by brush or airless, approx. 300/400 gr/m<sup>2</sup>.
- Allow this preparation layer to dry before proceeding with any other operation.
- With prefabricated constructions, apply a suitable reinforcing strip along all joints. In the presence of construction joints, prefabricated panels or metal decks, suitable expansion joints are to be considered. The membranes must be applied to the substrate fully bonded. In any case, when in the proximity of the head laps, the membrane must be applied for at least 100 cm; furthermore all details, perimeters, verticals, change of slope as well as projecting area must be fully bonded.

Characteristics	Measure Unit	ρ	Tolerance	Standard
Type of reinforcement		Single strand polyester		
Upper face finish		Talc		
Lower face finish		PE Film		
Length	m	10-1%		EN 1848-1
Width	m	1-1%		EN 1848-1
Thickness	mm	3 and 4	+5%	EN 1849-1
Cold Flexibility	C	-5		EN 1109
Flow Resistance	C	120		EN 1110
Flow Resistance after ageing	C	(4mm) 110	-10C	EN 1296
Artificial U.V ageing		(4mm) pass		EN 1297
Tensile Strength L/T	N/5 cm	700/500	-15	EN 12311-1
Elongation at break L/T	%	40/40	-20%	EN 12311-1
Tearing Resistance L/T	N	150/150	-30%	EN 12310-1
Dimensional Stability	%	-0.3		EN 1107-1
Fire Resistance		F ROOF		EN 13501-5
Fire Reaction		F		EN 13501-1
Watertightness	kPa	60		EN 1928

Due to the numerous possible interferences of conditions or elements beyond our control, we assume no responsibility to the obtained results

