



# SAPIRFLEX R 4 Black

prefabricated modified polymer-bitumen membranes

## Technical Data Sheet

SAPIRFLEX R 4 is a prefabricated modified polymer-bitumen membranes whose compound is composed of distilled bitumen and elastomers (SBS), reinforced with a Woven non-Woven polyester fabric. The modified compound offers excellent ageing properties, cold flexibility, durability and a very high elasticity.

SAPIRFLEX R 4 is available with either a polyethylene film or sand finish on the upper face to prevent the roll from sticking to itself and benefits the unrolling of the product during installation.

The lower face of SAPIRFLEX R 4 is backed by a special polyethylene burn-off film which melts during torching and prevents the roll from sticking to itself. The correct application temperature is visible from the embossed surface of the membrane which is below the burn off film, when the correct application temperature is reached, this embossment melts also helping vapor diffusion and avoiding blistering.

The burn off film also has a printed 10 cm square which allows the alignment of the side laps quickly and easily during application.

SAPIRFLEX R 4 offers an excellent static and dynamic puncture resistance, high tensile strength, both longitudinal and transversal, and ultimate elongation.



### INSTALLATION & LAP-JOINTS

The SAPIRFLEX R 4 polymer-bitumen membranes are applied:

- with a propane gas torch
- mechanically fastened

The suggested application tools required are a knife and rounded tip trowel.

Depending on the application, structure and specification, the SAPIRFLEX R 4 polymer-bitumen membranes can be:

- fully bonded
- spot bonded
- loose laid

In case of spot bonding, an area of 100 cm at each side of the end laps should always be fully bonded. An alternative system is to use the **IPERTEC FORATO** vented membrane. This membrane is provided with evenly distributed holes for a uniform application (please refer to technical data sheet).

Side joints should always be of 100 mm with head joints of 150 mm.



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### USES

SAPIRFLEX R 4 is designed to be used in a wide range of waterproofing as foundations, terraces, basements, concrete decks (flat, curved, etc.), metal & timber decks, etc. They are suitable for renovation and with or without thermal insulation.

### STORAGE

SAPIRFLEX R 4 polymer-bitumen membranes should be correctly stored in a dry location to prevent deformation and should not be stacked more than two pallets high using wooden spacers between the first and second pallet to distribute the weight.

### RECOMMENDATIONS

1. Application surface must be smooth, free of moisture, ponding water and dust.
2. The application area must be provided with an adequate drainage system.
3. The substrate must be primed with a bituminous based product (PRIMERTEC or IDROPRIMER) and allowed to dry prior to application.
4. Do not apply below +5 °C.
5. Do not apply during adverse weather conditions.
6. In case of application on vertical or considerable slopes, apply proper mechanical fasteners.
7. See our handbook "Waterproofing with Pluvitec" for application details.

Technical properties	Measure units	Requirement	Norm
Reinforcement		polyester	
Finish: Upper face:		sand	
Roll length	m	10	EN 1848-1
Roll width	m	1	EN 1848-1
Thickness	mm	4	EN 1849-1
Tensile strength Longitudinal / Transversal Ultimate elongation Longitudinal / Transversal	N/5 cm %	600 / 500 35 / 35	EN 12311-1 EN 12311-1
Tear strength	N	100 / 100	EN 12310-1
Static puncture resistance on foamed extruded polystyrene (30 Kg/m <sup>3</sup> )	N	150	EN 12730
Cold flexibility	°C	-20	
Dimensional stability	%	L0.5 T0.5	EN 1107-1
Resistance to high temperature	°C	+ 110	EN 1110
Watertightness	bar	2	EN 1928

Test methods and tolerances on nominal value, unless specified, are according IS 1430 part 3 (1995)