

ARCO THERMO AD waterproofing membrane Technical Data Sheet

**Compound
SBS**

**Flexibility
-20**

rev. 07/2015

DESCRIPTION

ARCO THERMO AD is a special prefabricated modified polymer-bitumen membrane, composed of distilled bitumen and SBS thermoadhesive polymers, activated by heat transfer. The bonding to the substrate (EPS, wood) is made by torching the upper surface of the membrane, without damaging the substrate.

ARCO THERMO AD is reinforced with a Woven non Woven polyester fabric (**P**) – with good mechanical properties or fiberglass mat (**V**) – with excellent dimensional stability.

The lower face of **ARCO THERMO AD** is protected with a special polypropylene siliconated film, which can be easily released before applying. The upper face of **ARCO THERMO AD** is protected with a burn-off polyethylene film and by a removable side selvedge strip.

APPLICATION

ARCO THERMO AD is applied by simply placing it onto the polystyrene or wood support.

Sticking the membrane onto the surface of the support will be achieved by the heat transfer resulting from:

- ✓ heat emitted by the flame of the burner or the hot air jet applied on top of the membrane.
- ✓ heat emitted by the flame of the burner or the hot air jet while applying the final waterproof layer.
- ✓ the action of sunlight on days with high temperatures.

ADVANTAGES OF ARCO THERMO AD

- ✓ Possibility of use on heat-sensitive panels (ex. EPS)
- ✓ Possibility of use on wooden decks
- ✓ Reduction of application time as both the vapor barrier and insulation are applied in one step. The particular adhesiveness of the ARCO THERMO AD is such that once the release film has been removed and the membrane laid, the roof is temporarily waterproofed allowing for completion.
- ✓ Speedy execution of double layer systems, by torching once the two membranes are applied, in fact the first layer does not require torching of the lower face.
- ✓ Double layer systems perfectly bonded to the substrate without risks of discontinuity of the adhesion.
- ✓ Application on wooden decks as an under tile membrane avoiding direct contact between the flame and the substrate.

Technical properties	M.U.	ARCO THERMO AD		Tolerances
		V	P	
Reinforcement		fibreglass	polyester	
Roll length (EN 1848-1)	m	10	10	± 0,2 %
Roll width (EN 1848 -1)	m	1	1	± 1 %
Nominal thickness (EN 1849 - 1)	mm	2 / 3	2 / 3	± 7 %
Cold flexibility (EN 1109)	°C	-20	-20	-
Tensile strength (EN 12311-1)				
-longitudinal	N/ 5 cm	450	500	± 20 %
-transversal		350	400	
Ultimate elongation (EN 12311-1)				
-longitudinal	%	2	40	± 20 %
-transversal		2	40	
Dimensional stability (EN 1107 -1)	%	0,1	0,2	max
Flow resistance (EN 1110)	°C	120	120	min
Resistance to static loading (EN 12730)	kg	5	15	min
Watertightness (EN 1928)	Kpa	60	60	min
Reaction to fire (EN 13501-1)	class	F		