

## ADEVAPOR 35

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### KIND OF PRODUCT

Waterproofing membranes obtained by co-extrusion of a special high-density vapour proof bitumen-polymer blending.

The membranes ADEVAPOR 35 are manufactured in the types W 35, ST 35 and AL 35, with a reinforced fibreglass mat (W35 type), with a non-woven polyester at a dimensional stability controlled by longitudinal fibreglass (ST 35 type), with a reinforced fibreglass felt coupled to an aluminium lamina in order to have a total action of barrier to the vapour (AL 35 type).

Both sides of the different versions of ADEVAPOR 35 are finished with the TEXTENE treatment made of a film of textured polymeric fibres that in combination with the special vapour proof bitumen compound improves the adhesion features for the direct bonding of compatible thermal insulator boards by means of a flame gas-torch.

On the exposed side, the TEXTENE treatment is in green colour and works as signal-layer in order to facilitate the application of the heat insulating boards.

### FIELD OF USE

The membranes ADEVAPOR 35 are especially designed as vapour check layer ( W 35 and ST 35 types) or as vapour barrier ( AL 35 type). All ADEVAPOR 35 types function as a bonding element of compatible thermal insulator boards by means of a flame gas-torch. Using the membranes ADEVAPOR 35, the thermal insulator boards are directly stuck on the membranes without using adhesives but simply using a flame gas-torch on the exposed side. The flame heating has to be done until the green signed-layer has completely disappeared and the surface has become black.

TECHNICAL FEATURES (I)				
ADEVAPOR SERIES		W35	ST35	AL35
Roll sizes (EN 1848-1)	m	1x10	1x10	1x10
Colour		green	green	green
Thickness (EN 1849-1)	mm	3.5	3.5	3.5
<b>Stress resistance (EN 12311-1)</b> ( Max. load = load at break)				
• Resistance L/T	N/5cm	300/200	500/400	350/210
• Elongation L/T	%	2/2	40/40	2/2
<b>Cold flexibility (EN 1109)</b>	°C		-15	
<b>Resistance to static puncture (EN 1849-1)</b>		L15	L20	L15
<b>Dimensional stability L/T (EN 1107-1/A)</b>	%	0,1	0,3	0,1
<b>Water vapour permeability (EN 1928)</b>		120.000	120.000	Absolute (2)
<b>Hot Dimensional Stability at 100 °C (EN 1110)</b>		Stable	Stable	Stable
<b>Watertightness (60 kPa) (EN 1928)</b>		Absolute	Absolute	Absolute

## METHODS OF APPLICATION

The support must be swept off carefully from the non-adhering and sharp parts followed by a primer treatment applied with brushes, roller or spray with a consumption of 0.2-0.3 Ltr/m<sup>2</sup> according to the porosity degree of the support.

When the primer is dry, the membranes ADEVAPOR 35 are easily applied by means of a propane-gas flame as for the bitumen-polymer membranes. The application can be done putting the sheets side by side (without overlapping them): the sealing of the membranes laid side by side is provided by the bituminous compound that flows during the torching operations with the help of a trowel.

The application of the thermal insulation boards is done bonding them directly on the ADEVAPOR 35 membranes which have been previously heated by means of a torch. The use of the torch should be done until the green signal-layer has completely disappeared and the surface has become black.

In this way the use of cold adhesive or hot oxidized bitumen can be avoided as a result of reducing expenses and saving working time.

Note: in case of the use of the vapour check as a temporary waterproofing layer, it's recommended to overlap the sheets on the joints and sealing them with the torch in order to avoid a possible water penetration.

To get more detailed and complete documentation about the lay-out systems, as well as about the realisation of the whole covering system, Imper Italia Technical Dept. is at full disposal for giving further explanations concerning any specific problems or requirements.

### Remarks:

- (1) Unless otherwise specified the values are in compliance with the UNI 8202 standards and with the UEAtc common directives for the bitumen-polymer membranes.
- (2) The value to be considered is  $\mu > 200.000$ .

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