



# Torch Evolution VCL/Carrier

## **PRODUCT DESCRIPTION**

Torch Evolution VCL/Carrier Membrane utilises SBS polymers. These allow the membrane to be flexible in cold weather conditions yet remain elastic over the life time of the roof. This membrane is reinforced with polyester which provides the membrane with its excellent tensile strength, tear/puncture resistance and elongation properties. The upper face is finished with a new multipurpose polypropylene textured fabric which is ideally suited to receive liquid coating products such as Garland's White-Knight system or adhesives used to bond insulation. This upper surface can also be melted by flame so conventional torch-based application methods can be used.

## **FEATURES AND BENEFITS**

- Strong and Elastic
- Coating receptive upper faced fabric
- Designed to prevent high humidity air saturated with moisture from entering the roof system and causing issues with thermal efficiency of the insulation and blistering of the waterproofing membranes.

## **USES**

The membrane has been specifically designed as a carrier layer for Garland's polyurethane liquid coating systems such as White-Knight. This membrane provides a new surface for such applications where the existing substrate is in poor condition or an intermediate layer of waterproofing is required. The membrane can also be used as a vapour check as the upper fabric surface provides good bond between Garland's Insu-Lock adhesive and the insulation boards used.

## **APPLICATION INSTRUCTIONS**

The laying deck shall be clean, smooth and dry. For a better adhesion it may be previously treated either with Garland Garla-Prime. The membrane is then laid by melting the lower side with light propane gas flame. Edges shall be overlapped, always by torch, by at least 100 mm on the sides and 150 mm on top so that waterproofing integrity is maintained.

Refer to specific specifications provided by your Regional Technical Manager.

## **TECHNICAL DATA**

### **Reinforcement type:**

Non-woven polyester reinforcement, reinforced with fibre glass filaments (composite).

### **Compound type:**

SBS

### **Surface finishing:**

Upper side: Textured polypropylene fabric  
Lower side: Polyethylene film.

### **Laying method:**

Lower side finishing: Propane-gas flame.

Upper Side finishing: hot/cold glues.

Characteristic	Test Method	Expression of result	Value	Units	Tolerance
Length	EN 1848-1	MLV	10	m	≥
Width	EN 1848-1	MLV	1	m	≥
Thickness	EN 1849-1	MDV	3	mm	± 10%
Watertightness	EN 1928:2000 Method B	Pass	60	kPa	≥
Reaction to fire	EN 13501-1	EN 13501-1	Euroclass F	-	-
External fire performance	EN 13501-5		Froof		
Shear resistance of joint	EN 12317-1	MDV	500/300	N/50 mm	-20 %
Maximum tensile force	EN 12311-1	MDV	600/400	N/50 mm	-20 %
Resistance to impact	EN 12691 Method A	MLV	900	mm	-
Elongation at break L/T	EN 12311-1	MDV	35/35	%	-15 ass.
Resistance to tearing (nail shank)	EN 12310-1	MDV	140/140	N	-20 %
Flexibility at low temperature	EN 1109	MLV	-20	°C	≤
Flow resistance at elevated temperature	EN 1110	MLV	110	°C	≥
Water vapour transmission after ageing	EN 1296 / 1931	μ = MDV or 20,000	20,000	-	-
Dangerous substances	-	See Note A			
Note A	This product does not contain asbestos, tar or any dangerous substance and consequently it is not subject to the production of a safety data sheet.				

For specific application recommendations, please contact your regional Garland Technical Manager or the Garland Technical Department.

