



Torch Flex Ultra-Bond

PRODUCT DESCRIPTION

Torch Flex Ultra-Bond is a vapour barrier designed to solve the problem where insulation boards must be bonded without using bitumen or an adhesive.

The top face of the membrane consist of a thermoplastic adhesive, which melts quickly when torched and forms a strong bond with the insulation panels pressed on to the membrane. The top face of a normal vapour barrier membrane has a layer of bitumen covering the reinforcement, which is no more than 1 - 1.5 mm thick, while the stripes of Torch Flex Ultra Bond protrude by 3 - 3.5 mm like an adhesive applied with a toothed spatula. Once the flame has softened the adhesive it is easier to level off the prominent zones with the torch, making up for any unevenness in the substrate.

FEATURES AND BENEFITS

Time Saving

With Torch Flex Ultra Bond there will be no more time wasted waiting for cold bond adhesives to set or risks of burns when installing molten bitumen, along with a significant reduction in waste and pollution. The high softening point of the rusticated indentations is over 140 degrees higher than that of oxidised bitumen normally used for bonding insulation panels, along with the high adhesive surface area, which can be obtained (around 40 %) and this guarantees the reliable installation on any slope.

Single Component

With Torch Flex Ultra Bond you do not need other materials, because you have an adhesive and vapour barrier in one single product.

USES

The Torch Flex Ultra Bond membranes is designed for use as under layer vapour barrier.

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 75mm on the sides and 100 mm on top so that waterproofing integrity is maintained.

Refer to specific specifications provided by your Regional Technical Manager.

TECHNICAL DATA

Reinforcement type:

Reinforced and stabilised with fibreglass.

Compound type:

Bitumen modified with thermoplastic rubber (SBS).

Surface finishing:

Upper side: PE / PP polymeric film with quartz sand.

Lower side: aggregate / PE / PP polymeric film, non-stick polymers.

Laying method:

Lower side: Propane-gas light flame

Characteristic	Test Method	Expression of result	Value	Units	Tolerance
Length	EN 1848-1	MLV	8	m	≥
Width	EN 1848-1	MLV	1	m	≥
Thickness	EN 1849-1	MDV	2.5	mm	± 10%
Weight	EN 1849-1	MDV	3.3	kg/m ²	± 10%
Watertightness	EN 1928:2000 Method B	Pass	60	kPa	≥
Reaction to fire	EN 13501-1	EN 13501-1	Euroclass E	-	
Peel resistance of joint	EN 12316-1	MDV	-	N/50 mm	± 20 N
Shear resistance of joint	EN 12317-1	MDV	250/120	N/50 mm	± 20 %
Maximum tensile force	EN 12311-1	MDV	250/120	N/50 mm	± 20 %
Elongation	EN 12311-1	MDV	3/3	%	± 10 %
Resistance to impact	EN 12691 Method A	MLV	-	mm	
Resistance to static loading	EN 12730	MLV	-	Kg	
Resistance to tearing (nail shank)	EN 12310-1	MDV	100/100	N	± 10 %
Dimensional stability	EN 1107-1	MLV	-0.3/0.3	%	≤
Flexibility at low temperature	EN 1109	MLV	-15	°C	≤
Flow resistance at elevated temperature	EN 1110	MLV	110	°C	≥
Water vapour transmission properties	EN 1931	μ = MDV or 20,000	1500000	-	

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