

Effisus Breather FR-B

B CLASS FIRE RATED WEATHERPROOFING BREATHABLE SOLUTION

Effisus **Breather FR-B** Membrane is a fire retardant waterproofing breathable membrane, made of polyester nonwoven with a waterproof special coating.

Effisus **Breather FR-B** Membrane has exceptional UV resistance and is designed for open or closed rainscreen cladding systems, cavity and masonry, leaf weatherboarding panels, tile/slate and timber frame cladding. Suitable for facades with open joints up to 50mm and maximum up to 50% of façade area. Protects the building against driving rain and moisture, improving façade resistance to fire and preventing future corrosion and insulation deterioration. Increases the building energy efficiency.



ACCESSORIES · Effisus 2Bond DS · Effisus 2Adjoin DF · Effisus Adjoin TI · Effisus Bonding Family

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Effisus Breather FR-B

Technical data

Essential characteristics	Method	Result
Thickness	-	0,60mm
Length	-	50lm
Width	-	1,50lm
Mass per unit area	EN 1849-2	270 g/m ²
Reaction to Fire	EN 13501-1	Class B-s1,d0
Watertightness	EN 1928	W1
Sd-value (m)	EN ISO 12572	≈0,02
Water vapour transmission (K g/m ² /s/Pa)	EN ISO 12572	≈6,5x10 ⁻⁹
Diffusion resistance factor (μ-value)	-	35
Tensile strenght MD/CD (N/50mm)	EN 12311-1	370/270
Tear resistance MD/CD (N)	EN 12310-1	150/150
Elongation at break (%)	EN 12311-1	20 – 50%
Dimensional stability (%)	EN 1107-2	<0,5%
Flexibility at low temperature (°C)	EN 1109	-25°C
Service temperature range (°C)	-	-40°C to +80°C
Artificial ageing (5000h UV)		
Tensile strenght (N/50mm)	EN 12311-1	290/230
Watertightness	EN 1928	W1
Vapour permeance (PROC A/PROC B) (Perms) ^{a)}	ASTM E96-05	204/308
Water vapour transmission (PROC A/PROC B)(g/m ² /24H) ^{a)}	ASTM E96-05	1415/2274
Water penetration resistance (cm) ^{a)}	CAN/CGSB-4.2 #26.3-956	103,8
Water impact penetration resistance ^{a)}	AATC 45-2000	No water passing
Reaction to fire (flame spread/smoke developed) ^{a)}	ASTM E84-09	Class A

^{a)}

For more information about the american standards, please contact Effisus Technical Department.



Effisus Breather FR-B membrane can be applied with different Effisus accessories: single-side adhesive tape, double-sided adhesive tapes and adhesive sealants.

Accessories selector

		EFFISUS 2ADJOIN DF <small>(double side tape)</small>	EFFISUS ADJOIN TI <small>(single side)</small>	EFFISUS BONDING FAMILY <small>(sealant)</small>	EFFISUS 2BOND DS <small>(double side tape)</small>
Membrane Fixing / Positioning	Concrete or similar porous surfaces			*	
	Aluminium Foil (insulation)	*		*	
	Gypsum Sheathing Board, Calcium Silicate Boards, Cement Basis or similar	*		*	
Membrane Overlaps			*	*	
Perimeter Sealing	Concrete or similar porous surfaces			*	
	Aluminium		*	*	
	Gypsum Sheathing Board, Calcium Silicate Boards, Cement Basis or similar		*	*	
Perforations Sealing	Pipes		*		
	Electrical cables		*		
	Nail/screw		*		*

* Preferred Use

Effisus 2Bond DS



Double-sided self-sealing adhesive tape creating a permanent weatherproofing seal on concrete, aluminum, sheathing boards and many other substrates. Specifically designed to seal nail and screw penetrations, ensuring an effective and durable seal at these critical points.

Technical data

Essential characteristics	EFFISUS 2BOND DS
Total thickness	1.54mm
Standard roll sizes	25mm x 15,25 lm 50mm x 15.25 lm
Temperature resistance	-57°C to >+93°C
Elongation	> 500% ± 100
Resistance to water penetration (EN 1928)	W1
Application temperature	-29°C to 66°C ambient
Material	Synthetic resins, thermoplastics and non-curing rubber (non butyl)



Effisus 2AdJoin DF



Double-sided, airtight, and moisture-resistant sealing tape suitable for positioning the Effisus Breather FR-B Membrane on to the substrate.

Technical data

Essential characteristics	EFFISUS 2ADJOIN DF
Standard roll size	2.5cm x 20.0 lm
Temperature resistance	-40°C to 90°C
Material	Acrylate, free of solvents and softeners

Effisus AdJoin TI



Waterproofing and airtight flexible multi-purpose single side adhesive tape (acrylate based – free of solvents or softeners) suitable to seal Effisus Breather FR-B membrane perforations.

Technical data

Essential characteristics	EFFISUS ADJOIN TI
Temperature resistance	-40°C to 90°C
Standard roll size	6cm x 30Im
3rd Party accreditation	IAB
Life expectancy	60 years+
Usage	Interior & Exterior

Effisus Bonding KF+P

It is a solvent free adhesive and sealant with exceptional properties of waterproofing and UV resistance. Without storage or transportation restrictions. Ideal for application on areas with ventilation constraints.



Technical data

Essential characteristics	EFFISUS BONDING KF+P
Base	PDMS polymer
Temperature resistance	-40°C to +160°C
Colour	Black
Density	12 g/cm ⁻³
Skin formation	25min

Effisus Bonding KF+P was tested in accordance with the specifications of Indoor Air Confort GOLD – Eurofins and fulfils the LEED v4.1, EMICODE, BREEAM International – obtained an Exemplary Level.

Effisus Bonding KF

Effisus Bonding KF is an adhesive with exceptional properties of adhesiveness and waterproofing. With exceptional bonding strength it is especially suitable for rough, uneven surfaces.



Technical data

Essential characteristics	EFFISUS BONDING KF
Base	Styrene rubber
Temperature resistance	-40°C to +90°C
Colour	Black
Density	1,15 g/cm ³

Effisus Bonding KFP

Effisus Bonding KFP adhesive is used for bonding EPDM and butyl to concrete, masonry, wood, glass, aluminium, steel and bitumen or for lap joint connections.



Technical data

Essential characteristics	EFFISUS BONDING KFP
Base	Styrene rubber, solvent-borne
Viscosity	Pasty
Colour	Black
Density	1,0 g/cm³
Solid content (by weight)	75%
Flash-off time / waiting time	30 sec
Open time	10 min
Consumption	200-300 g/cm²