

Effisus Breather FR-B ST

Modern Standard Facade Protection System

Standard breathable membrane with UV resistance, W1 watertightness and B-s1,d0 fire classification, combining reliable waterproofing with excellent vapour permeability for safe and durable façade applications.

The Effisus Breather FR-B ST is a waterproof and breathable membrane, engineered to meet the standard requirements of modern construction. With a B-s1,d0 fire classification, also providing W1 watertightness, it delivers enhanced safety and performance for everyday façade applications.

Manufactured with a special coating allowing vapour diffusion, and designed to perform long term under extreme conditions, the membrane offers excellent resistance to UV exposure and temperatures up to 120°C, ensuring consistent performance over time.

The system includes a wide range of accessories allowing its installation on the most demanding project requirements promoting facade efficiency.



ACCESSORIES · **Effisus 2Bond DS** · **Effisus 2Adjoin DF** · **Effisus Adjoin TI** · **Effisus Bonding KF**

Effisus Breather FR-B ST

Technical data

Essential characteristics	Method	Result
Thickness	EN 1849-2	0,35mm
Length	EN 1848-2	50lm
Width	EN 1848-2	1,50lm
Mass per unit area	EN 1849-2	115 g/m ²
Reaction to Fire	EN 13501-1	Class B-s1,d0
Watertightness	EN 1928 A	W1
Watertightness (after ageing: 336h 90 days at 80°C)	EN 1928 A	W1
Sd-value (m)	EN ISO 12572 C	0,06
Tensile strenght MD/CD (N/50mm)	EN 12311-1	280/190
Tensile strenght (after ageing: 336h UV 90 days at 80°C)	EN 12311-1	200/140
Tear resistance MD/CD (N)	EN 12310-1	100/110
Elongation at break (%)	EN 12311-1	25 – 25%
Elongation at break (after ageing: 336h UV 90 days at 80°C)	EN 12311-1	20 – 20%
Dimensional stability (%)	EN 1107-2	1,5%
Stability at low temperature (°C)	EN 1109	-40°C
Water vapour transmission 23°C/85%RH (g/m² x 24h)	Lissy	1000
UV exposure considered safe under Central Europe's average yearly solar radiation		3 months
Resistance to air penetration	EN 12114	≤0,05

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

Accessories selector

		EFFISUS 2ADJOIN DF (double side tape)	EFFISUS ADJOIN TI (single side)	EFFISUS BONDING KF (sealant)	EFFISUS 2BOND DS (double side tape)
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		*	*	*
	Interface membranes			*	*
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 ST 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



Building bonding paste for bonding Effisus membranes in 600 ml foil pouch. Especially suitable for rough, uneven surfaces. A one component adhesive sealant made of synthetic rubber, which cures to a durable elastic rubber.

Technical data

Essential characteristics	Result
Base	Styrene rubber, containing solvents
Colour	Black
Viscosity	Pasty (4500mPa.s +/-1000)
Application temperature	+5°C to +35°C ^{a)}
Temperature resistance	-40°C to +90°C
Flash point	-8°C
Density	1.15g/cm ³
Solid content	Approx. 79%
Ventilation time	Approx. 30 sec
Open time	Approx. 10 min
Consumption	Approx. 7 lm considering a bead of Ø8mm

^{a)}
-10°C to 5°C (provided that the substrate has been pre-treated with primer)