EFFISUS
Excellence in Weatherproofing

TECHNICAL DATA SHEET

EFFISUS VAPOUR FR SYSTEM

A1 CLASS FIRE RATED WEATHERPROOFING AIR AND VAPOUR BARRIER (AVCL)

View on the website

EFFISUS VAPOUR FR MEMBRANE

Effisus Vapour FR works as airtight vapour control layer (AVCL) protecting the building from condensation risk and improving the airtightness and consequently the energy efficiency.

EFFISUS ACCESSORIES SYSTEM

X3 SYSTEM POSSIBILITIES

Effisus 2Bond DS Tape

Function
Perimeter sealing;
Sealing nail/screw perforations

Substrates compatibility
Concrete or similar porous surfaces; Aluminum; Gypsum Sheathing Board, Calcium Silicate Boards, Cement Basis or similar; EPDM; Roofing membrane; Gas membrane

Special notes
Accessory with elongation and 1.54mm thickness to allow movements

Effisus Bonding KF+P Paste Adhesive

Function
Perimeter sealing; Fixing and sealing nail/screw perforations

Substrates compatibility
Concrete or similar porous surfaces; Aluminum; Gypsum Sheathing Board, Calcium Silicate Boards, Cement Basis or similar; EPDM

CERTIFICATIONS ON GOING

BBA Certification

LABC

Effisus Vapour FR membrane was tested in accordance with the specifications of Indoor Air Comfort GOLD – Eurofins and fulfils the LEED v4.1, EMICODE – EC1 Plus (achieved the best classification), BREEAM International – obtained an Exemplary Level.

TECHNICAL DATA SHEET

Essential characteristics		TEST METHOD	RESULT
Thickness (mm)		-	150µ/170µ ± 15µ
Length (lm)		-	50
Width (lm)		-	1.20
Sd value (m)		EN 1931	> 1500
Reaction to fire	System	EN13501-1	Class A2-s1,d0
	Membrane	EN13501-1	Class A1
Air Permeability ($m^3/h/m^2$)		EN12114	0,002
Water penetration		EN 1928	W1, passed
Tensile Strength MD (N/50mm)		EN 12311-1	> 700; max: 890/>900
Tensile Strength CD (N/50mm)		EN 12311-1	> 400; max: 861/>900
Elongation CD (%)		EN 12311-1	> 3; max: 5
Elongation MD (%)		EN 12311-1	> 3; max: 5
Tearing resistance MD (N)		EN 12310-1	> 170; max: 176/180
Tearing resistance CD (N)		EN 12310-1	> 130; max: 147/160
Joint Strength (N/50 mm)		EN 12317-2	311
Artificial ageing by long term exposure		EN 1296 / EN 1931	Passed
Resistance to impact (mm)		EN 12691 A / EN 19691 B	1750 / 1250
Flexibility at low temperature		EN 1109-1	-40°C, passed

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ACCESSORIES SELECTOR

Effisus Vapour FR System achieved a fire reaction Class A2-s1,d0 as a system with Effisus accessories (double-sided adhesive tapes and paste adhesive/sealant).

EFFISUS 2BOND DS
(double-sided tape)

EFFISUS BONDING KF+P
(paste adhesive)

Membrane Fixing	Masonry, Concrete or similar porous surfaces	●	●
	Galvanized Studs or similar metallic smooth surface		●
	Aluminium		●
	Gypsum Sheathing Board, Calcium Silicate Boards, Cement Basis or similar, Aluminium frame, Mineral Wool	●	●
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 TAPE

Double-sided self-sealing adhesive tape creating a permanent weatherproofing seal on concrete, aluminium, sheathing boards and many other substrates. Specially designed to perimeter seal the membrane edges and ensuring an effective sealing on membranes nail/screw perforations.

CLASS A2-s1, d0

- ✓ Membrane
- ✓ Fastening Accessories
- ✓ Overlaps Accessories
- ✓ Penetrations Sealing

Tested & Approved

EFFISUS 2BOND DS

TECHNICAL DATA SHEET	
Elongation	> 500% ± 100
Standard roll sizes	25mm x 15,25 lm 50mm x 15.25 lm
Temperature resistance	-57ºC to > +93ºC
Total thickness	1.54mm
Water vapour test (EN 1931)	W1
Shear resistance EN 12317-2c)	> 77 (N/50 mm)
Elongation at Break EN 12317-2 a)	18 mm
Elongation (47N / 50 mm)	25 mm
Application temperature	66ºC to -29ºC

a) Results obtained based on shear resistance test standard EN 12317-2 between the Effisus 2Bond DS tape and the Effisus Vapour FR membrane;

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EFFISUS BONDING KF+P ADHESIVE

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.

CLASS A2-s1, d0

- ✓ Membrane
- ✓ Fastening Accessories
- ✓ Overlaps Accessories
- ✓ Penetrations Sealing

Tested & Approved

EFFISUS BONDING KF+P

TECHNICAL DATA SHEET	
Base	PDMS polymer
Temperature resistance	-40ºC to 160ºC
Colour	Black
Density	1.2 g/cm3
Skin formation	25min

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