

# Effisus TiteJoint3

Metal roofing has multiple transitions between metal panels. Slip lap joints, a common design solution when large movements are expected, are very demanding to weatherproof.

Effisus TiteJoint3 can be customized to the project needs, creating a long-lasting weatherproofing seal along very demanding and immediate/daily joint movements due to expansions/contractions, resisting to UV exposure and low/high temperatures. It's an application specific composite solution that combines an EPDM membrane, a high-end sealing tape with immediate tack and a reliable perimeter sealant.



SYSTEM COMPONENTS · [Effisus Ecofacade](#) · [Effisus 2Bond FT](#) · [Effisus Bonding KF+P](#)

# Effisus Ecofacade



Interfaces between construction elements, such as expansion joints, are hotspots for water and air leakages. Effisus Ecofacade is an EPDM membrane, with an outstanding >300% elongation capacity and resistance to UV exposure and high/low temperatures.

## Technical data

Essential characteristics	Method	Result
Thickness	EN 1849-2	1,30 mm (-5% / +10%)
Length	EN 1848-2	≥ 20 (lm)
Width	EN 1848-2	100 – 1300 ± 0,2%
Density	EN 1849-2	1,575 kg/m <sup>2</sup>
Watertightness	EN 1928 A	W1 (passed)
Airtightness	EN 12114	≤ 0,1 m <sup>3</sup> /(m <sup>2</sup> h)(50Pa)
Water vapour permeability μ	EN 1931	60.000 ± 18.000
Tensile strength	EN 12311-2 B	≥ 8,5 N/mm <sup>2</sup>
Tensile elongation	EN 12311-2 B	≥ 350%
Resistance to nail tearing	EN 12310-1	≥ 110 N
Fire reaction	EN 13501-1	Class E
Resistance to artificial ageing	EN 1296 EN 1931	In accordance

**Note:**

Refer to the individual product technical data sheet for additional details regarding surface preparation, application details, safety, storage, shelf life and other additional product specific information

## Effisus 2Bond FT



Effisus 2Bond FT tape is double side vulcanized rubber pressure-sensitive adhesive tape with 0,90 mm thickness, integrating a proven peel & stick technology. Effisus 2Bond FT tape has no VOC's and presents an excellent adhesion to most substrates including EPDM membranes, glass, metal, wood, concrete, masonry and some plastics. This tape provides an excellent quick adhesion specially to EPDM membranes and possesses a high initial strength.

### Technical data

Essential characteristics	Method	Result
Base polymer	FTIR	EPDM
Colour	-	Black
Thickness	-	0.9 mm
Tensile strength	ASTM D 412	40 psi min.
Elongation	ASTM D 412	> 1000 %
Peel strength on EPDM	ASTM D 413	10 psi @ 70°F ( 21° C)
Shear strength on EPDM	ASTM D 816	20 psi @ 70°F ( 21° C)
Brittleness temperature	ASTM D D746	-50°F (-49°C)
Service temperature	ASTM D 3359	-40°F to 200 °F (-40°C to 93°C)
Application temperature	ASTM D 603	40°F to 120 °F (4°C to 49°C)

**Note:**

Refer to the individual product technical data sheet for additional details regarding surface preparation, application details, safety, storage, shelf life and other additional product specific information

# Effisus Bonding KF+P



Facade and roofing installations often face challenges where ventilation is limited, or environmental regulations restrict the use of solvent-based products. Effisus Bonding KF+P Adhesive delivers a powerful, solvent-free solution that combines exceptional bonding strength, waterproofing, and UV resistance in a single product.

## Technical data

Essential characteristics	Result
Base	PDMS polymer
Colour	Black / White
Viscosity	Pasty
Mechanical Properties	Elastic
Curing	Moisture curing
Density	1,23 g/cm <sup>3</sup>
Recommended minimum layer thickness	1 mm
Skin formation	8 min
Tear strength	0,55 N/mm <sup>2</sup>
Elongation	150%

**Note:**

Refer to the individual product technical data sheet for additional details regarding surface preparation, application details, safety, storage, shelf life and other additional product specific information

## Others

### Surface Preparation

Surface must be clean and dry. The surface must be cleaned with Effisus Cleaner or similar. Remove any dust, debris, oil and grease and other contaminants

### Application

Position the Effisus Ecofacade 1.3 mm thick membrane in the center of the joint. Once the membrane has been positioned, mark the edge of the membrane on the substrate to guide/identify the alignment where the tapes should be applied to fix the membrane to the substrate.

Apply the Effisus Primer RED+ to all surface where Effisus 2Bond FT tape will be applied using a brush. Allow the primer to dry to the touch. Dry time will vary depending on ambient temperature and humidity (typically less than 20 minutes).

Apply the 2 bands of Effisus 2Bond FT tape over the primed area, on each side of the joint and along the edges of the Effisus Ecofacade. Remove the release liner from the tape gradually as the tape is applied to the substrate.

Apply the Effisus Ecofacade membrane without any tension and apply pressure over the membrane surface with a silicone roller over the area where the Effisus 2Bond FT tape was applied.

Finish the application by applying beads of 8mm diameter of Effisus Bonding KF+P adhesive sealant to the entire perimeter of the application.

### Pictures

Representative application images of a slip lap joint, before and after weatherproofing with Effisus TiteJoint3. In addition, a section of the Effisus TiteJoint3 system solution halfway the application process, showing what will be the bottom side of the Effisus Ecofacade EPDM membrane with the already installed Effisus 2Bond FT tapes.

