Technical Information
Fasatan® ES / Fasatyl® ES

Fasatan® and Fasatyl® are bitumen compatible EPDM rubber sealing foils for facade areas which are tight for water, driving rain and wind. A special web layer renders Fasatan® ES external and Fasatyl® ES internal amenable to plastering, for painting and for glueing.
Fasatan® und Fasatyl® corrspond to EN 13984 and to EN 14909, they are pan-European regulated building products. Confirmity is verified by the CE marking.

The Fasatan 0.8, Fasatan 1.0 and Fasatan strong (1.2 mm) EPDM membranes are, irrespective of the underfloor, in conjunction with bonding or mechanical adhesives, suitable for use as single-layer waterproofing membranes according to DIN 18533. For the Fasatan versions in thicknesses, which differ from the standard requirements, 0.8 and 1.0 mm, a technical approval from the DIBT in Berlin is available in form of an Allgemeine Bauartengenehmigung. The waterproofing membrane Fasatan in thicknesses ≥ 0.8 mm can be used as vertical and horizontal water barrier without transmission of lateral forces (MSB-nQ) according to the following water impact classes, which are specified in standards DIN 18533-1 and DIN 18533-2:
- W1-E: Soil water and not pressing water – sealing of surface area with soil contact
- W2.1-E: Moderate impact of pressing water ≤ 3 m depth of immersion
- W3-E: Not pressing water on with soil deluged – not trafficable –slabs
- W4-E: Capillary water in and underneath walls

Joining of membranes has a minimum width of 10 cm and is made with the single component adhesive Fasatan TFS.

CE

Fasatan strong ES
Fasatan 1,0 ES
Fasatan 0,8 ES
Fasatan® 0,6
economic

Fasatyl strong ES
Fasatyl 1,0 ES
Fasatyl 0,8 ES
Fasatyl® 0,6
economic

EN 13984

CE

Fasatan strong ES
Fasatan 1,0 ES
Fasatan 0,8 ES

Fasatyl strong ES
Fasatyl 1,0 ES
Fasatyl 0,8 ES

EN 14909

Fasatan® ES and Fasatyl® ES will offer you the following advantages:
- will absorb all normal structural expansion
- solvent-free
- durably sealing
- clear cost-saver due to saved time
- waterproof pursuant to EN 1928
- driving rain proof
- windproof
- may be plastered
- may be painted
- may be glued
- UV-resistant, ozone-resistant, bitumen-resistant and rot-proof

Fasatan® ES and Fasatyl® ES are available in a variety of types. Please do not hesitate to ask – we will design your solution.

Technical data:

EPDM sealing membrane	**Fasatan® 0,6 economic ES**	**Fasatan® 0,8 ES**	**Fasatan® 1,0 ES**	**Fasatan® strong ES**	
		water vapour permeable for outdoors			
Thickness	0.6 mm	0.8 mm	1.0 mm	1.2 mm	
Thickness tolerance	± 25%	± 20%	± 20%	± 10%	
Water vapour diffusion resistance value		μ ≤ 50 000			EN 1931
		μ = approx. 20 000			DIN EN ISO 12572
s_d value	approx. 12 m	approx. 16 m	approx. 20 m	approx. 24 m	DIN EN ISO 12572
Tensile strength	≥ 6 MPa	≥ 7 MPa	≥ 7 MPa	≥ 8 MPa	EN 12311-2
Elongation at break	≥ 250%	≥ 300%	≥ 300%	≥ 300%	EN 12311-2
Tear resistance	≥ 10 N	≥ 10 N	≥ 10 N	≥ 20 N	EN 12310-2
Water tightness 2 kPa water pressure		pass			EN 1928

EPDMM sealing membrane	**Fasatyl® 0,6 economic ES**	**Fasatyl® 0,8 ES**	**Fasatyl® 1,0 ES**	**Fasatyl® strong ES**	
		water vapour proof for indoors			
Thickness	0.6 mm	0.8 mm	1.0 mm	1.2 mm	
Thickness tolerance	± 25%	± 20%	± 20%	± 10%	
Water vapour diffusion resistance value		μ ≤ 160 000			EN 1931
		μ = approx. 140 000			DIN EN ISO 12572
s_d value	approx. 84 m	approx. 112 m	approx. 140 m	approx. 170 m	DIN EN ISO 12572
Tensile strength	≥ 6 MPa	≥ 7 MPa	≥ 7 MPa	≥ 8 MPa	EN 12311-2
Elongation at break	≥ 250%	≥ 250%	≥ 250%	≥ 300%	EN 12311-2
Tear resistance	≥ 10 N	≥ 10 N	≥ 10 N	≥ 20 N	EN 12310-2
Water tightness 2 kPa water pressure		pass			EN 1928

Fasatan®- / Fasatyl® Optima ES	
UV and weather resistance	Depending on version, max. 6 months or max. 12 months. Afterwards the web layer will be lastingly damaged. But the EPDM sealing layer will remain intact.
Length of roll	20 m
Thermal stability	-30 °C to +75 °C

Processing notes:
The inner seal must be more vapour diffusion-proof than the outer seal. Therefore use Fasatan® ES for the outer seal and use Fasatyl® ES for the inner seal.
First of all ensure that the joint gap is well insulated with appropriate material (mineral wool or similar) when sealing to avoid thermal bridges and interior temperatures dropping below the dew point.

Bonding of the membranes on site is done with **Fasatan® TFS**, **Fasatan® TFU**.
Please observe the following instructions when bonding the membranes with **Fasatan® TFS**, **Fasatan® TFU**:

- check the adhesive compatibility of the subsurface
- the undergrounds must be clean, dry, solvent-, grease- and oil-free
- the seam overlap of individual sheet widths should be at least 10 cm

Please observe our technical instruction sheet specifications and the adhesive processing notes!

After installation, the surface of Fasatan® ES and Fasatyl® ES can easily be plastered according to conditions of the Technical Bulletin No. 5 of the Bundesverband Ausbau und Fassade im Zentralverband des Deutschen Baugewerbes and of the Industriegruppe Baugipse im Bundesverband der Gipsindustrie e.V. The conditions described there concerning mainly requirements of the substrate, width of the membranes, interior as well as exterior plaster structure and the installation of thermal insulation composite systems, have to be observed.
Do not stretch Fasatan® ES or Fasatyl® ES when adhering to the embrasure. Use a loop between frame element and structure.
Depending on structure surface and adhering system, a pre-treatment of the structure, e.g. using a primer, may be necessary. Therefor we recommend our **Multi Primer**.
The material requirements concerning the application of plaster on sealing membranes:

- adequate plaster adhesion
- resistance to alkalis

are given. When used as a seal for wall bases and sill sealing, mainly Fasatan® ES may be used as a carrier for perimeter insulation boards by using the common, hydraulically hardening system adhesives.
Fasatan® ES and Fasatyl® ES are pressed with an appropriate pressure roller to the substrate.

Storage:
12 months from date of manufacture, in tightly closed original container.
Storage in a properly ventilated storage area at temperatures up to +30 °C.

Attention! Important Note:
Above information is based on best present knowledge of current technology, but do not guarantee faultless processing of our products. The information is based on practical results of our tests, but is not binding and does not constitute warranties of characteristics in terms of Federal Supreme Court jurisdiction. Our information does not constitute a legally binding assurance of certain properties or suitability for a specific purpose. Supplementary information by our specialists are merely recommendations, for which no liability is accepted.
Due to the many possible applications of our products, we recommend subjecting the project to a thorough suitability test on original materials before release for further application.
Since our information is non-binding we do not warranty their correctness. For this reason we accept no liability for possible improper processing based on information submitted by our employees.
This technical data sheet replaces all previous versions and is valid until a new version is issued, or until Dec. 31, 2026. Please request the latest version after Jan. 01, 2027.

Dr. Hermann, Anwendungstechnik / Application Technology, Gingen / Fils