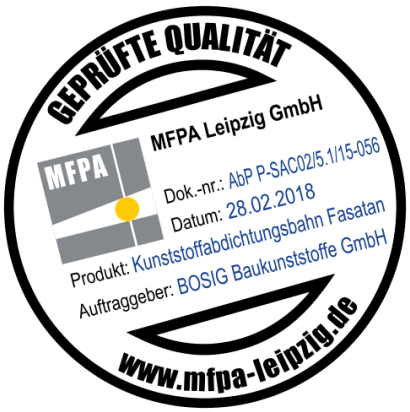
Building Material Scout

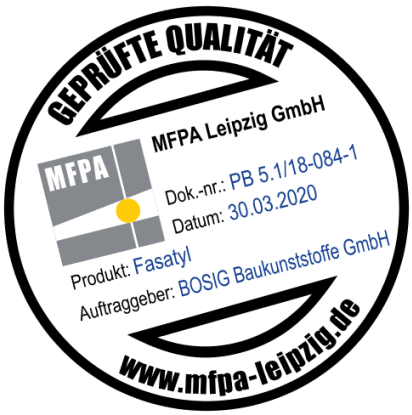
Product Verification

Sustainability

according to BNB BN 2015
according to BREEAM International New Construction 2016
according to DGNB NBV 2015
according to DGNB Gebäude Neubau 2018
according to LEED Building Design and Construction V3 (2009)
according to LEED Building Design and Construction V4 (2015)

Certification:
The emission behaviour of Fasatan® and Fasatyl® has been tested independently by the institute for analytic Aurachtal. Fasatan® and Fasatyl® have been proved and tested to be very low-emission and particularly does not contain any halogenated flame retardant substances.





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 in the versions Fasatan-, Fasatan Fix system, or Fasatan Weatherstrip System. 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 or with the self-adhesive Fasatan-Fix-system.

Fasatan and Fasatyl are approved quality are bitumen compatible. Fasatan® and Fasatyl® have been examined according to DIN EN 13501 – 1 and correspond to the Fire Behaviour Class E normally inflammable.
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.

Fasatan strong Fix **Fasatyl strong Fix** **Fasatan 1,0 Fix** **Fasatyl 1,0 Fix** **Fasatan 0,8 Fix** **Fasatyl 0,8 Fix** **Fasatan eco Fix** **Fasatyl eco Fix** **EN 13984**	**Fasatan strong Fix** **Fasatyl strong Fix** **Fasatan 1,0 Fix** **Fasatyl 1,0 Fix** **Fasatan 0,8 Fix** **Fasatyl 0,8 Fix** **EN 14909**	**BOSIG GmbH** **P-BAY26-05339** **DIN EN 13501 – 1**

Fasatan® and Fasatyl® are sealing membranes made of EPDM rubber for the facade area. The sealing membranes are available in different thicknesses and in widths of 50 mm to 1500 mm.
These membranes can be adhered to all usual components, also on polystyrene and similar solvent-sensitive surfaces with our proven **Fasatan® TFS**, our special single-component, solvent-free, pasty adhesive supplied in a tubular bag or with our **Fasatan® TFU**.
A further possibility is adhering with our proven contact adhesive **Fasatan® TFK**, especially in over head areas or where an immediate high bonding strength is required. **Fasatan® TFK** is suited for all usual components, with the exception of polystyrene and similar solvent-sensitive undergrounds. We recommend bonding with our adhesives **Fasatan® TFS**, or **Fasatan® TFU** on such surfaces.

Technical data:	Fasatan® eco	Fasatan® 0,8	Fasatan® 1,0	Fasatan® strong	
		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 μ = approx. 20 000			EN 1931 DIN EN ISO 12572
s_d	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
Durability against ageing		pass			EN 1296 / EN 1931
Fire behaviour		fire behaviour Class E			EN 13501-1
Roll length		20 m			

	Fasatyl® eco	Fasatyl® 0,8	Fasatyl® 1,0	Fasatyl® strong	
		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 μ = approx. 140 000			EN 1931 DIN EN ISO 12572
s_d	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
Durability against ageing		pass			EN 1296 / EN 1931
Fire behaviour		fire behaviour Class E			EN 13501-1
Roll length		20 m			

Processing notes:
The inner seal must be more vapour diffusion-proof than the outer seal. Therefore use Fasatan® for the outer seal and Fasatyl® 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.
Please observe the following instructions when bonding membranes on-site with **Fasatan® TFS**, **Fasatan® TFU** or **Fasatan® TFK**:

- 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!

Chemical resistance:

Medium group	Medium	Evaluation*)
	Bitumen	+
Oils and fuels	ASTM Nº 1 Oil	0
	ASTM Nº 2 Oil	0
	ASTM Nº 3 Oil	-
	ASTM Fuel A	-
	ASTM Fuel B	-
	ASTM Fuel C	-
	Fuel oil	-
	Aviation fuel	0
	Kerosene	-
Automotive products	Grease	0
	Motor oil 10W-30	-
	Petrol RON 94	-
	Petrol RON 99	-
	Petrol RON 102	-
	Leaded petrol	-
Hydraulic fluids	Cronite 8200	+
	Pydraul F-9	+
	Pydraul 60	+
	Skydrol	+
	Skydrol 500	+
Solutions / mixtures	Saturated glucose solution	+
	Iodine tincture	+
Antifreeze	Prestone Antifreeze	+
	Dowgard Antifreeze	+

*) + resistant
0 conditionally resistant
- instable

Tab. 1:
Chemical resistance of Fasatan® and Fasatyl®. The specifications refer to room temperature.
Fasatan® und Fasatyl® are instable or conditionally resistant in organic solvents. Fasatan® und Fasatyl® are however resistant in aqueous media, except in extreme cases.

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