

Fasatan® TFU is a polyurethane-based, single-component, stable under load, elastic, adhesive / sealant specially for the bonding of our construction sealing membranes **Fasatan®** and **FasatyI® eco** on normal building foundations, mainly behind prehung facades.

Fasatan® TFU is free of acid and isocyanate with no mandatory labelling requirements, and thus possesses neutral behaviour towards the foundation and in odour. Fasatan® TFU cures to a permanently elastic mass by uptake of atmospheric oxygen.

Areas of application:

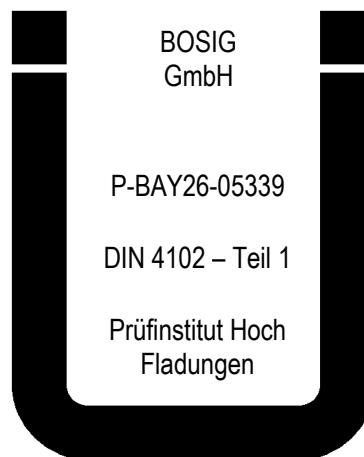
Fasatan® TFS is suitable for the bonding of our construction sealing membranes Fasatan® and FasatyI® onto nearly every common building materials like concrete, brickwork, plaster, natural stone, aluminium, steel, zinc, copper, glass, wood, MDF, tiles, ceramic as well as for gluing these materials among each other. Furthermore Fasatan® TFU is suitable for internal and external joint sealing.

Fasatan® TFU adheres normally without any pre-primer on even and closed cell subsurfaces like glass, or metallic undergrounds as well as on softener free plastics.

Absorbent building and open porous materials should be pre-primed with a mixture of Fasatan® TFK with Fasatan® cleaner / thinner in a ratio of 1 : 1 or our Multi Primer.

Fasatan® TFU is tested quality in compliance with DIN 4102, part 1 and corresponds to the building material class normally inflammable (DIN 4102-B2), when our construction sealing foils Fasatan®, FasatyI® and Fasatan® eco are adhered to metals, wood, or solid mineral subsurfaces with Fasatan® TFU.

Fasatan® TFS is subjected to the rigorous requirements of the voluntary external quality control of the testing institute.



Technical data:

Chemical basis	hybrid polyurethane	
Colour	black	
Density	approx. 1.35 g / ml	
Stability under load	< 2 mm	ac. to ISO 7390
Hardness Shore A	approx. 22	ac. to DIN 53 505
Modulus 100 %	0.50 MPa (N / mm ²)	ac. to DIN 53 504
Tensile strength	1.5 MPa (N / mm ²)	ac. to DIN 53 504
Elongation at break	650 %	ac. to DIN 53 504
Skin formation time	60 minutes	23 °C / 55 % r. h.
Curing	Depending on the ambient temperature and the atmospheric humidity 2 – 3 mm after 24 hours	23 °C / 55 % r.h.
Temperature resistance	approx. - 30 °C to + 80 °C	
Processing temperature	+ 5 °C to + 35 °C (building element temperature)	
Delivery form	600 ml tubular bag, 20 tubular bags / cardboard box	

Processing notes:

Material consumption:

Depending on the foundation about 10 m per 600 ml cartridge, nozzle diameter 8 mm.

At 1mm layer thickness of the adhesive the consumption is approx. 1 l / m², i.e. a 600 ml tubular bag suffices for approx. 0.6 m² adhesion surface.

The internal seal must be more vapour diffusion tight than the outer seal. Therefore Fasatan® must be used for the outer seal and Fasatyl® for the inner seal.

Care must be taken during sealing that the joint space is first well-insulated with suitable material (mineral wool or other) to avoid heat bridges and undershooting the dew point on the inside.

Preparation of the adhesion surface:

The adhesion surfaces must be firm, load-bearing, clean and free of grease, oil and dust. Any release agent present must be removed. Prime where necessary. For a few applications priming is imperative, e.g. with strong mechanical stress or above average loading with water after curing. All materials which prevent complete curing or adhesion to the foundation, e.g. grease and oils, must be completely and carefully removed. The foundation must be tested for its adhesive compatibility. Fasatan® TFU is not suitable for use on and in aquaria, on foundations of PMMA, PP, PE, Teflon or foundations which have been treated with release agents.

Tools:

The following tools are sufficient for secure and unproblematic mounting: cartridge pistol, protective gloves, carpet knife, large and small spatulas and plastic roller.

Mounting:

Apply Fasatan® TFU with the cartridge gun and nozzle onto the foundation in a continuous bead (nozzle diameter at least 8 mm). Spread the adhesive bead with a spatula.

Depending upon the width of the membrane an adhesive width of 4 – 5 cm and a thickness of 1 mm is sufficient at the building structure, on the element a width of 3 cm and a thickness of 1 mm is sufficient. At least 10 cm overlap should be maintained with membrane overlap.

Attach Fasatan® or Fasatyl® in a loop. Lay the membrane onto the fresh adhesive bed and apply an even pressure (e.g. with a pressure roller). After attachment of the membrane the adhesive joint should be at least 1 mm in thickness and fully filled with adhesive without air bubbles.

Finally the membrane edges are bedded into excess adhesive with a spatula. In horizontal regions apply adhesive to the membrane edge with a spatula as additional seal.

It is possible to adjust the bonded membrane for up to 30 minutes after attachment.

Open containers should be used as soon as possible.

During processing and curing time avoid contact to alcohol, hydrocarbons, cleaners and solvents.

Cleaning:

Contamination by non-cured adhesive can be removed with Fasatan® cleaner / thinner. Fasatan® cleaner / thinner can also be used to degrease the adhesion surfaces – test compatibility! Whenever working is done with Fasatan® cleaner / thinner the compatibility has to be tested. When set, Fasatan® TFS can only be removed mechanically.

Storage:

Store in tightly closed original packing, dry at temperatures between + 5 °C and + 25 °C out of direct sunlight.

Shelf-life at least 9 months from date of producing on in unopened original packing.

Attention! Important Note:

Above information are 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 are 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, 2010. Please request the latest version after Jan. 01, 2011.

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