

EGOFERM BUTYLDICHTBAND

is a double-sided self-adhesive sealing tape which works straight away without any waiting time, and which is characterised by its simple, straightforward application. EGOFERM is a non-shrinking, thermoplastic, butyl rubber-based sealing tape and also available as a round profile. Its properties and components make EGOFERM excellently suited to "sustainable building", and it promises a long-lasting seal.

CHARACTERISTICS

EGOFERM's excellent properties mean that it can be used in all applications:

bitumen-compatible · bitumen-free · easy manual application · good adhesion and compatibility with most known materials · has an insulating effect · high water vapour diffusion impermeability · immediately functional · noise-insulating · non-corrosive · non-shrinking · odourless · permanently self-adhesive · physiologically harmless · plastic · resistant to ageing, weathering, UV and long-term self-sealing · solvent-free · waterproof · water-resistant · when used properly and professionally, EGO Butyl has an almost unlimited service life

APPLICATION AREAS

EGOFERM is suitable for sealing and fixing in the industrial and building sectors as well as for overlapping and protective sealing tasks on connections, joints, seams, wrapping, breakthroughs and butt joints, as well as for extensive repair tasks both indoors and outdoors. EGOFERM can be used as corrosion protection between metal materials or as vibration or noise insulation. Mechanical protection is required in cases where forces are transmitted.

Areas of application:

air conditioning technology · bathroom · caravan · concrete construction · container construction · electrical installation vehicle construction · equipment construction · facade · furniture construction · interior fittings · kitchen · metal construction · precast concrete construction · refrigeration technology · roof · sanitary area · shipbuilding · silo technology · ventilation technology

APPLICATION NOTES

The bonding surfaces must be dry, stable, free of dust and de-bonding agents. On porous substrates such as concrete, plaster, etc., adhesion can be increased by pre-treatment with EGO BUTYLPRIMER PRO or EGO BUTYLPRIMER ECO (solvent-free). For increased adhesion, please refer to the primer table. The adhesion build-up on the substrate is purely physical and can be improved by pressing or rolling on the substrate and increases again over time. The temperature behaviour is typically thermoplastic, i.e. with increasing temperature, a higher stickiness and softer material consistency is achieved. Especially when it comes to automatic unwinding processes, we recommend a processing temperature of approx. 20°C. EGOFERM is self-sealing and bonds very well with itself if you just lightly press on it with your finger. It is only possible to separate it again by cutting. To do this, you must first wet a sharp knife with water. If sufficient pressure is required with minimal movement of the surfaces to be bonded, the seal is retained (effect of the flexible seal). A constant load of pressure on the EGOFERM causes it to deform between the sealed surfaces. Pressing together the sealed surfaces guarantees a perfect seal, and balances out any unevenness between the bonded surfaces. Round profiles and higher processing temperatures make it easier to press into the final dimensions, which is ensured thanks to the corresponding spacers. Complete compression of the butyl sealant can be ensured with permanent spacing (e.g. EGOBON 212 WITH CORE; FIX SPACER 2.3 mm).

Simply dab off butyl residues on the substrates or tools with EGOFERM. Impurities that are difficult to dissolve can be removed mechanically, e.g. with a sharp knife moistened with water, and are best dissolved with cleaning petrol.

Compatibility with other building materials is only guaranteed with the EGO products recommended for this.

Our list of material properties provides you with an overview of all the necessary information and a detailed comparison of our EGO butyl products.

NORMS AND TESTS

EGOFERM corresponds to the:

IVD-Instruction-Sheets:

- No. 3-2, 5, 9, 19-1, 19-2, 24, 25, 29, 31, 35

Compatibility:

- with bitumen in accordance with DIN EN 1548

The following tests were achieved by EGOFERM:

Rainproof:

- ift Rosenheim

Aging resistance:

- SKZ Würzburg

Classification report:

- Building material class E according to DIN EN 13501

SUSTAINABILITY

VOC emission according to:

- AgBB
- French VOC Class A+ and CMR-Regulation

Product verifications:

- LEED Building Design and Construction V4 [2015]
- BNB BN 2015 [quality level 5/5]
- BREEAM International New Construction 2016

SUSTAINABILITY

- DGNB New Buildings 2018 [quality level 4/4]

Listing in baubook:

- EGOFORM is listed in baubook

Material requirements for QNG / Quality Seal for Sustainable Buildings:

- Adhesives and sealants in interior rooms incl. TGA according to BNB_BN_1.1.6, Annex 1, Item 8 and QNG-313, Items 4.1, 4.2
- Adhesives and sealants for creating the airtightness of the façade in accordance with BNB_BN_1.1.6, Annex 1, Item 9 and QNG-313, Item 4.3



*Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ [très faibles émissions] à C [fortes émissions]

TECHNICAL DATA

Properties	Result	in accordance with
Material Basis	butyl rubber, polyisobutylene (PIB)	
Density	approx. 1.2 g/cm³	DIN EN ISO 1183-1
Application Temperature	+5 °C to +30 °C	
Service Temperature	-40 °C to +100 °C for short periods up to +180 °C [stove-enamel]	
Shore Hardness 00	approx. 55	DIN EN ISO 868
Penetration butyl [150g, 23°C, 5sec]	approx. 57 [0.1 mm]* Butyl 30x30mm	DIN 51580
Compressive Strength	> 0.10 N/mm²	LAB-01 [based on NF P30-303]
Peel strength [90° Peel test]	approx. 50N/25mm* on steel	LAB-17 [based on DIN EN 29862]
Peel strength [180° Peel test]	approx. 80N/25mm* on steel	LAB-06 [based on DIN EN 29862]
UV, weather and long-term resistance of butyl [after 1000 hrs]	very good no crack formation no breaking no reduction of the tack	DIN EN ISO 4892-2:2013
UV resistance [after 200 hours of UV radiation]	very good no crack formation no breaking no reduction of the tack	
Bending resistance of butyl [after 100 hrs at +90°C & 5 hrs at -30°C]	No crack formation No breaking	
Viscosity	stable	DIN EN ISO 7390
Solids Content	> 99 %	DIN EN ISO 10563
Ignition Temperature	> 400 °C	DIN 51794
Building material class	B2, normal flammability Euro class E	DIN 4102 EN 13501-1

*Average values, not intended for specification

AVAILABILITY AND STORAGE

Standard Colour	grey			
Standard Dimensions	Thickness x Width	Meters/Roll	Rolls/Box	Meters/Box
	3 mm round	12	30	360
	4 mm round	10	30	300
	5 mm round	9	22	198
	6 mm round	7	11	154
	8 mm round	6	18	108

AVAILABILITY AND STORAGE

Standard Dimensions

Thickness x Width	Meters/Roll	Rolls/Box	Meters/Box
1,0 x 6 mm	30	22	660
2,0 x 8 mm	18	22	396
2,0 x 10 mm	18	22	396
2,0 x 15 mm	18	18	324
2,0 x 20 mm	18	14	252
3,0 x 10 mm	12	22	264
3,0 x 15 mm	12	18	216
3,0 x 20 mm	12	14	168
3,0 x 30 mm	12	10	120

Special sizes on request

Storage

Rolls can be stored horizontally, dry and protected from dust:
 ■ 24 months [at +20 °C]
 Protect against mechanical damage.

MEASUREMENT TOLERANCES

Dimension	Tolerances flat profiles		Tolerances round profiles
2 mm - 4 mm Ø			± 0,3 mm
5 mm - 15 mm Ø			± 0,5 mm
20 mm - 27 mm Ø			± 1,0 mm
28 mm - 30 mm Ø			± 3,0 mm
1 - 4 mm x 6 - 10 mm	± 0,5 mm	± 0,2 mm	
1 - 4 mm x 12 - 50 mm	± 1,0 mm	± 0,2 mm	

SAFETY INFORMATION

Complies with	Regulation [EC] No 1907/2006 [REACH]
Not hazardous according to	Regulation [EC] No 1272/2008 [CLP]
Not subject to labeling according to	Regulation [EC] No 1272/2008 [CLP]
Safety instructions	see SDS
Disposal instructions	see SDS

For warnings see EC safety data sheet. The above information is the result of thorough research; previous information is hereby invalidated. Check for yourself whether the product is suitable for your purposes. Our possible liability is limited to the value of our product as such. We cannot accept any liability for indirect damage, in particular for the use or unusability of the product. No one is authorized to make recommendations or assurances on our behalf that go beyond the content of our information sheets.