EGOBON 225 BUTYLDICHTBAND

is a self-adhesive, thermoplastic sealing tape based on butyl rubber with extremely high surface tack, especially on smooth substrates such as enamel or tile. Its properties and components make EGOBON 225 excellently suited to "sustainable building", and it promises a long-lasting seal.

CHARACTERISTICS

EGOBON 225 is characterized by excellent universal properties:
bitumen-compatible · easy 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- & bitumen-free · waterproof · water-resistant · when used properly and professionally, EGO Butyl has an almost unlimited service life

APPLICATION AREAS

EGOBON 225 is suitable for sealing and fixing in the industrial and construction sectors as well as for overlapping and protective sealing tasks without the transmission of mechanical forces on joints, connections, breakthroughs, seams, wrapping and butt joints, as well as for extensive repair tasks both indoors and outdoors. The product can be used as corrosion protection between metal materials or as vibration and noise insulation. Mechanical protection is required in cases where forces are transmitted.

Areas of application:
air conditioning technology · caravan · container construction · electrical installation · refrigeration technology · sanitary engineering shipbuilding · 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. EGOBON 225 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 achieved 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 EGOBON 225 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 EGOBON 225. 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

EGOBON 225 corresponds to the:

IVD Instruction Sheets:
- No. 3-2, 5, 25, 29, 31, 35

Compatibility:
- with bitumen in accordance with DIN EN 1548

The following tests were achieved by EGOBON 225:

Certificate of Compliance:
- for direct contact with food [Certificate No. 65011 U 25]

Test certificate:
- for use in clean rooms and RLT systems in accordance with VDI 6022 "Hygienic requirements for ventilation and air-conditioning systems" and in accordance with VDI 2083 "Cleanroom technology"

SUSTAINABILITY

VOC emission according to:
- EMICODE EC1 Plus
- AgBB scheme [loading 0.007 m^2/m^3]
- French VOC Class A+ and CMR-Regulation

BMS product verifications:
- DGNB New Building 18 and DGNB New Building 23
- QNG Plus Version
- BNB - Assessment System for Sustainable Building
- EU taxonomy
- LEED v4.1

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SUSTAINABILITY

- BREEAM DE New Build 2018 & BREEAM International 2016

Environmental Product Declaration [EPD]:

- Sample EPD [Products based on butyl chemistry]

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 facade 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. 1.4 g/cm³	DIN EN ISO 1183-1
Application Temperature	+5 °C to +30 °C	
Service Temperature	-40 °C to +100 °C	
Shore Hardness 00	approx. 35	DIN EN ISO 868
Penetration butyl [150g, 23°C, 5sec]	approx. 83 [0.1 mm]* Butyl 30x30mm	DIN 51580
Compressive Strength	> 0.04 N/mm²	LAB-01 [based on NF P30-303]
Peel strength [90° Peel test]	approx. 40N/25mm* on steel	LAB-17 [based on DIN EN ISO 29862]
Peel strength [180° Peel test]	approx. 50N/25mm* on steel	LAB-06 [based on DIN EN ISO 29862]
Water tightness	watertight	DIN EN 1928
Sd-value	≥ 1500m [butyl thickness ≥2mm]	DIN EN 12572
UV, weather and long-term resistance [after 1000 hours]	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 and 5 hrs at -30°C]	No crack formation No breaking	
Viscosity	non-sag up to +70 °C [tape thickness ≤ 1 mm]	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

Color	black, grey
Dimensions	on request
Storage	Rolls can be stored horizontally, dry and protected from dust: ▪ 24 months [at +20°C] Protect against mechanical damage.

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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.