

EGOBON 224 BUTYL SEALING TAPE

is a sealing tape characterised by its simple application. Available as a self-adhesive, thermoplastic sealant based on butyl rubber, as a sealing tape and as a round profile, the product is characterised by its UV-resistance. EGOBON 224 is almost infinitely durable and functional. Its properties and components make EGOBON 224 excellently suited to "sustainable building", and it promises a long-lasting seal.

CHARACTERISTICS

EGOBON 224 is characterized by excellent universal properties:

bitumen-compatible · bitumen-free · 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 use · self-sealing · solvent-free · waterproof · water-resistant when used properly and professionally, EGO Butyl has an almost unlimited service life

APPLICATION AREAS

EGOBON 224 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 · automotive · caravan · concrete construction · container construction · electrical installation equipment construction · furniture construction · interior fittings · metal construction · precast concrete construction · refrigeration technology · sanitary area · shipbuilding · silo technology · vehicle construction · 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 224 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 224 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 224. 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 224 corresponds to the:

IVD Instruction Sheets:

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

Compatibility:

- with bitumen in accordance with DIN EN 1548

The following tests were achieved by EGOBON 224:

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
- French VOC Class A+ and CMR-Regulation

BMS product verifications:

- LEED Building Design and Construction V4 [2015]
- BNB BN 2015 [quality level 5/5]
- BREEAM International New Construction 2016
- DGNB New Buildings 2018 [quality level 4/4]

Material requirements for QNG / Quality Seal for Sustainable Buildings:

- Adhesives and sealants in interior rooms incl. TGA according to BNB_BN_11.6, 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_11.6, 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/cm ³	DIN EN ISO 1183-1
Application Temperature	+5 °C to +30 °C	
Service Temperature	-40 °C to +80 °C	
Enamel Volume Index MVR [2mm nozzle, 5 kg, + 140 °C]	approx. 238 mL/10min	ISO 3311-1
Shore Hardness 00	approx. 30	DIN EN ISO 868
Penetration butyl [150g, 23°C, 5sec]	approx. 92 [0.1 mm]* Butyl approx. 5 cm Ø	DIN 51580
Compressive Strength	> 0.03 N/mm ²	LAB-01 [based on NF P30-303]
Peel strength butyl	approx. 20 N/25mm*	LAB-06 [based on DIN EN 29862]
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 +80 °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

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AVAILABILITY AND STORAGE

Color	black
Dimensions	on request
Storage	Rolls can be stored horizontally, dry and protected from dust: <ul style="list-style-type: none">▪ 24 months [at +20 °C] Protect against mechanical damage.

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.