

## EOBON 227 BARREL BUTYL

is a hot melt based on butyl rubber which is characterised by its high surface tack and low application temperature. As a thermoplastic sealing compound, it can be extruded or calendared industrially in virtually any form. EOBON 227 is only suitable as a "hot melt" for industrial applications and can be processed using barrel melting systems. The high quality, long-lasting and UV-resistant butyl compound is characterised by its high quality thanks to its almost unlimited durability and functionality, especially in the automotive sector and in "sustainable construction". The low flow temperature of approx. 80 °C protects the energy footprint of the manufacturer as early as the production process.

### CHARACTERISTICS

**EOBON 227 is characterized by excellent universal properties:**

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

### APPLICATION AREAS

EOBON 227 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. The hot melt is processed on barrel melting systems with a flow temperature of between 80 °C and 130 °C. The temperature influences the flow rate.

**Areas of application:**

air conditioning technology · automotive · caravan · concrete construction · container construction · electrical installation · facade refrigeration technology · roof · sanitary area · shipbuilding · vehicle construction · ventilation technology

### APPLICATION NOTES

The bonding surfaces must be dry, stable, free of dust and de-bonding agents. Very good bonding capacity is already achieved on most smooth and partially porous or fibrous substrates without the use of primers. 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. EOBON 227 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 EOBON 227 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. EOBON 212 WITH CORE, FIX SPACER 2.3 mm]. Simply dab off butyl residues on the substrates or tools with EOBON 227. 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

**EOBON 227 corresponds to the:**

**IVD Instruction Sheets:**

- No. 5, 25, 29, 31, 35

**Compatibility:**

- with bitumen in accordance with DIN EN 1548

**The following tests were achieved by EOBON 227:**

**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:**

- 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
- 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\_1.1.6, Annex 1, Item 8 and QNG-313, Items 4.1, 4.2

### SUSTAINABILITY

- 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	tape: approx. 1.4 g/cm <sup>3</sup> barrel: approx. 1.4- 1.5 g/cm <sup>3</sup>	DIN EN ISO 1183-1
Application Temperature	+5 °C to +30 °C	
Service Temperature	-40 °C to +100 °C	
Enamel Volume Index MVR [2mm nozzle, 5 kg, + 140 °C]	approx. 1744 mL/10min	ISO 3311-1
Shore Hardness 00	approx. 25	DIN EN ISO 868
Penetration butyl [150g, 23 °C, 5sec]	approx. 118 [0.1 mm]* Butyl ca. 5 cm Ø	DIN 51580
Compressive Strength	> 0.03 N/mm <sup>2</sup>	LAB-01 [based on NF P30-303]
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	
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
Packaging	200 l drums [approx. 210 kg] for processing on drum melters
Storage	24 months [at +20 °C]

### 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.