

## GOBON 212 WITH CORE

is a self-adhesive sealing cord based on butyl rubber which, as a round profile, has an injected "core" as a spacer or for tear protection. The core, which is embedded in the centre of the round profile, may consist of cotton, NBR [rubber] or EPDM [foam rubber], as an option. The respective function of the core can be used for the dimensional stability of the tape or as a predetermined spacer. GOBON 212 WITH CORE also has all the other properties which characterise the quality features of GOBON 212.

### CHARACTERISTICS

**GOBON 212 WITH CORE is characterized by excellent universal properties:**

bitumen-compatible · bitumen-free · defined spacer in the sealing cord · dimensional stability of the sealing cord during 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 · ready for use straight away · 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

GOBON 212 WITH CORE 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.

**Areas of application:**

air conditioning technology · automotive · caravan · concrete construction · container construction · equipment construction · metal construction · precast concrete construction · refrigeration technology · shipbuilding · vehicle construction · ventilation technology

### CORDS

**The various injection options offer different advantages and possible applications:**

- **Cotton core 0.6 MM:** It serves as overstretch protection for the product, particularly in the case of the relatively thin round cords of up to 4 mm. This has the advantage that the round cord is not overstretched, even after the carrier material has been pulled off and can therefore be laid in a more dimensionally stable manner.
- **NBR[rubber]-Core 3.2 MM:** It serves as overstretch protection, but also has elastic properties. This means that the material cannot be pulled apart, yet remains slightly stretchable. This injection material cannot be pressed to zero at a Shore A hardness [IRHD] of 65 even at high pressures and thus serves as a spacer.
- **EPDM[foam rubber]-Seele 0.5 MM:** It has an integrated air pocket and the resulting low density of 0.6 g/cm<sup>3</sup> means that it offers a weight saving. This air pocket causes a resetting effect in the foam rubber core after application and once it is pressed in. Mechanical protection is required in cases where forces are transmitted.

### 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. 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 GOBON 212 WITH CORE 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. Simply dab off butyl residues on the substrates or tools with GOBON 212. 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

**GOBON 212 WITH CORE corresponds to the:**

**IVD Instruction Sheets:**

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

**Compatibility:**

- with bitumen in accordance with DIN EN 1548

**The following tests were achieved by GOBON 212 WITH CORE:**

**Certificate of Compliance:**

- for direct contact with food

**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<sup>Plus</sup>
- 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\_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) with integrated core of cotton, NBR or EPDM	
Density	approx. 1.7 g/cm <sup>3</sup>	DIN EN ISO 1183-1
Application Temperature	+5 °C to +30 °C	
Service Temperature	-40 °C to +100 °C; for short periods up to 150 °C	
Shore 00 Härte	approx. 50	DIN EN ISO 868
Penetration [150g, 23 °C, 5 sec]	approx. 63 [0.1 mm]* Butyl 30x30mm	DIN 51580
Compressive Strength	> 0.08 N/mm <sup>2</sup>	LAB-01 [based on NF P30-303]
Peel strength butyl	approx. 30 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	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

Properties Cotton Core	Result	In accordance with
Material Basis	Cotton	
Compressive Strength	> 80 N	DIN EN ISO 2062

### TECHNICAL DATA

Properties NBR-Core	Result	In accordance with
Material Basis	NBR [rubber]	
Shore Hardness A	approx. 65	DIN 53505
Compressive Strength	> 11 N/mm <sup>2</sup>	DIN 53504
Compression set 25 % available 22 h at 100 °C	< 20%	DIN 53517
Properties EPDM-Core	Result	In accordance with
Material Basis	EPDM [foam rubber]	
Compressive Strength	> 2 N/mm <sup>2</sup>	DIN 53504
Compression set 25% available 24 h at 70 °C	< 25 %	DIN 53517

### AVAILABILITY AND STORAGE

Color	grey			
Standard Dimensions	Diameter	Meters/Roll	Roll/Box	Meters/Box
	10 mm	11	5	55
	20 mm	3,5	5	17,5
	Special sizes on request.			
Storage	Rolls can be stored horizontally, dry and protected from dust: ■ 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.