

EGOBUTYL 242 DEEP CONSTRUCTION TAPE

is a sealing tape based on butyl rubber which, due to its heat resistance, cold resistance and root strength, is excellently suited to use in underground construction. It is characterised by good compatibility and adhesion with concrete and most known building materials, including bitumen. Its properties and components make the EGOBUTYL 242 excellently suited to “sustainable building”, and it promises a long-lasting seal.

CHARACTERISTICS

EGOBUTYL 242 is characterised by the following excellent properties:

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

APPLICATION AREAS

EGOBUTYL 242 is suitable for sealing concrete sewer rings, concrete containers, cable ducts, inspection ducts, concrete components. Mechanical protection is required in cases where forces are transmitted.

Areas of application:

cable shafts · concrete components · concrete containers · inspection shafts · sewage concrete manhole rings

APPLICATION NOTES

The sealing surfaces of the concrete body must be stable, even, solid and have no cracks or cavities in order to achieve waterproof sealing with the integrated underground construction tape. For good initial adhesion, the sealing surfaces must still be dry, stable, and free from dust and de-bonding agents. In order to improve the adhesion to the substrate and as an assembly aid, EGO BUTYLPRIMER PRO or EGO BUTYLPRIMER PRO [solvent free] can be used as a primer. 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. Place the tape on the prepared sealing surface and press it firmly. The butt joints can be slightly overlapped and pressed [self-sealing]. In cold weather, the sealing tape can be heated with warm air. In order to allow the position of the subsequent shaft ring to be corrected, wet the already positioned EGOBUTYL 242 with water to prevent the further shaft ring from bonding straight away. The constant pressure due to the intrinsic weight of the shaft rings, etc. causes the tape to deform and create a reliable seal. Depending on the load, several spacers can be integrated in the underground construction tape in order to ensure a minimum layer thickness of the sealing tape between the corresponding component joints. EGOBUTYL 242 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. Simply dab off butyl residues on the substrates or tools with the EGOBUTYL 242. 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

EGOBUTYL 242 corresponds to the:

IVD Instruction Sheets:

- No. 5, 29

Compatibility:

- with bitumen in accordance with DIN EN 1548

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 façade 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)

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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 +100 °C	
Shore Hardness 00	approx. 70	DIN EN ISO 868
Penetration butyl [150g, 23°C, 5sec]	approx. 26 [0.1 mm]* Butyl 22x30mm	DIN 51580
Compressive Strength	> 0,24 N/mm ²	LAB-01 [based on NF P30-303]
Peel strength butyl	approx. 70 N/25mm*	LAB-06 [based on DIN EN 29862]
Root resistance	Effect of lignification at the tips of the roots, which causes a deflection of the roots	CEN/TS 14416
Water-tightness	to 0.5 bar [5 m water column]	
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 Color	grey			
Standard Dimensions	Thickness x Width	Meters/Roll	Rolls/Box	Meters/Box
	22,0 x 30 mm	3,7	4	14,8
	<ul style="list-style-type: none"> ▪ e.g. for shaft rings with a diameter of 800 to 1200 mm ▪ special profiles 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.