# EGOPOL BUTYL SEALING TAPE

is a butyl rubber-based sealing tape which works straight away without any waiting time, and which is characterised by its simple, straightforward application. EGOPOL is available as a double-sided, self-adhesive, non-shrinking, thermoplastic sealing tape and also as a round profile. Its properties and components make EGOPOL excellently suited to "sustainable building", and it promises a long-lasting seal.

## CHARACTERISTICS

**EGOPOL's excellent properties mean that it can be used in all applications:**
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 exposure · self-sealing · solvent-free · waterproof · water-resistant · when used properly and professionally, EGO Butyl has an almost unlimited service life

## APPLICATION AREAS

EGOPOL is suitable for sealing between components made of concrete, wood, fibre cement, corrugated sheet, fibre-reinforced polyester etc. In general, EGOPOL is suitable for overlapping and protective sealing tasks on joints, connections, seams, wrapping, breakthroughs and butt joints, as well as for extensive repair tasks both indoors and outdoors. In addition to the temporary fixing aid without transmission of mechanical forces, the product is also suitable for use as corrosion protection between metal materials or for vibration and noise insulation. Mechanical protection is required in cases where forces are transmitted.

**Areas of application:**
civil engineering · industry · mold construction · precast concrete parts

## 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. Adhesion to the substrate is purely physical, may be improved by firmly pressing or rolling the tape onto the substrate and increases once again with time. The product's temperature behaviour is typically thermoplastic, i. e. it becomes softer and its surface tack increases with rising temperature. We therefore recommend an application temperature of about 20 °C. EGOPOL is the marked-oriented supplementary product to the EGOFERM and EGOBON sealing tape range. It features no migration in water and is certified by the Süddeutsche Kunststoffzentrum Würzburg with regard to its suitability for tropical climates and for sealing fibre cement boards EGOPOL moreover has the quality certificate „Label Façade" [SNJF] of the SFJF [Syndicat Français des Joints et Façades, Paris]. EGOPOL 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 EGOPOL 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 EGOPOL. 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

**EGOPOL 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 EGOPOL:**

**Test report:**
- of the Süddeutschen Kunststoffzentrums with regard to the product's suitability for sealing fibre-cement boards

**Conformity:**
- in accordance with EC Regulation No.1935/2004 article 3 with regard to the product's immersion in water

## SUSTAINABILITY

**VOC emission according to:**

- EMICODE EC1Plus
- 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
- 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** | approx. 1.9 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. 50<br>approx. 65 [Reels] | DIN EN ISO 868 |
| **Penetration butyl [150g, 23°C, 5sec]** | approx. 54 [0.1 mm]* Butyl 30x30mm | DIN 51580 |
| **Compressive Strength** | > 0.10 N/mm$^2$ | LAB-01 [based on NF P30-303] |
| **Peel strength butyl** | approx. 25 N/25mm* | LAB-06 [based on DIN EN 29862] |
| **UV, weather and long-term resistance of butyl [after 1000 hrs]** | very good<br>no crack formation<br>no breaking<br>no reduction of the tack | DIN EN ISO 4892-2:2013 |
| **UV resistance [after 200 hours of UV radiation]** | very good<br>no crack formation<br>no breaking<br>no reduction of the tack | |
| **Bending resistance of butyl [after 100 hrs at +90°C & 5 hrs at -30°C]** | No crack formation<br>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<br>Euro class E | DIN 4102<br>EN 13501-1 |

*Average values, not intended for specification

## AVAILABILITY AND STORAGE

| | |
|---|---|
| **Standard Color Butyl** | grey |
| **Standard Dimensions** | |

| Dimension | Meters/Roll | Rolls/Box | Meters/Box |
|---|---|---|---|
| 8 mm Ø | 6 | 22 | 132 |
| 20 mm Ø | 3 | 12 | 36 |

| | |
|---|---|
| **Storage** | Rolls can be stored horizontally, dry and protected from dust:<br>▪ 36 months [at +20 °C]<br><br>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.