

## EGOTAPE 1000 FLEXDICHTBAND

is a self-adhesive, flexible, thermoplastic, butyl rubber-based sealing tape laminated with a two-dimensional PE film that can be stretched up to 300%. The highly flexible, thin PE film is used for easy application even around difficult areas, e.g. for pipe sealing with round sealing requirements. The sealing itself is done by the butyl compound. With its properties and components, the flexible sealing tape is excellently suited as a joint tape in the field of „sustainable building“ and has been verified according to the DGNB, LEED, BREEAM and BNB rating systems.

### CHARACTERISTICS

#### This combination results in optimal properties:

300% stretchable PE film · bitumen-compatible · bitumen-free · easy processing · good adhesion and compatibility with most known materials · has an insulating effect · high water vapour diffusion impermeability · immediately functional even without primer · noise-insulating · non-corrosive · non-shrinking · odourless · physiologically harmless · plastic · self-adhesive on one side · solvent-free · water-proof · water-resistant · when used properly and professionally, EGO Butyl has an almost unlimited service life

### APPLICATION AREAS

EGOTAPE 1000 is suitable for simple and permanent sealing of construction and connection joints, especially corners and curves. The flexible sealing tape should not be permanently in direct contact with UV light.

#### Areas of application:

antennas · chimneys · penetrations · pipes · roof penetrations · ventilation ducts · windows

### 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 or increases again automatically over time. The temperature behaviour is typically thermoplastic, i.e. with increasing temperature, a higher stickiness with simultaneously softer material consistency is achieved. Cross laying in the roof area should be avoided as there is a risk of being pushed off by snow and ice loads. The adhesive surface of the sealing tape must be at least 20 mm on both sides of the joint [gap] for joint overlays on smooth, non-absorbent substrates and at least 30 mm on porous, absorbent substrates. EGOTAPE 1000 can be moulded by hand. When laying, press down either firmly by hand or with a roller. Simply dab off butyl residues on the substrates or tools with butyl. 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. The stretchable film with which the FLEXIBLE SEALING TAPE is laminated serves, among other things, as installation aid and is only UV-resistant to a limited extent. However, the butyl remains permanently UV-resistant and provides the flexible sealing tape with longterm resistance to weathering. 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

#### EGOTAPE 1000 corresponds to the:

##### IVD Instruction Sheets:

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

##### Compatibility:

- with bitumen in accordance with DIN EN 1548

### 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]

#### Listing in the DGNB Navigator:

- EGOTAPE 1000 is listed in the DGNB Navigator
- EGOTAPE 1000 has been awarded the DGNB-Navigator label with the registration code: BIT690

#### 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)

## EGOTAPE 1000 FLEXDICHTBAND

### TECHNICAL DATA

| Product-Properties  | Result   | in accordance with             |
|---|--|--------------------------------|
| Material Basis sealant  | butyl rubber, polyisobutylene (PIB)  |                                |
| Material Basis film   | flexible PE film   |                                |
| Elasticity of the film  | max. 300 % [film]  |                                |
| Application Temperature   | +5 °C to +30 °C  |                                |
| Service Temperature   | -40 °C to +90 °C   |                                |
| Viscosity   | stable   | DIN EN ISO 7390                |
| Outdoor exposure  | max. 3 months  |                                |
| Solids Content  | > 99 %   | DIN EN ISO 10563               |
| $\mu$ Value   | approx. 766000   | DIN EN ISO 12572               |
| Sd Value  | $S_d = \mu \times d$   | d = tape thickness in [m]      |
| Baustoffklasse  | B2, normalentflammbar  | DIN 4102                       |
| Butyl-Properties  | Result   | in accordance with             |
| Density   | approx. 1.4g/cm <sup>3</sup>   | DIN EN ISO 1183-1              |
| Shore Hardness 00   | approx. 40   | DIN EN ISO 868                 |
| Compressive Strength  | > 0,04 N/mm <sup>2</sup>   | LAB-01 [based on NF P30-303]   |
| Penetration butyl<br>[150g, 23°C, 5 sec]                                | approx. 76 [0.1mm]*<br>Butyl 30x30mm                                       | DIN 51580                      |
| Peel strength [90° Peel test]   | approx. 65N/25mm* on steel   | LAB-17 [based on DIN EN 29862] |
| Peel strength [180° Peel test]  | approx. 75N/25mm* on steel   | LAB-06 [based on DIN EN 29862] |
| UV, weather and long-term resistance [after 1000 hours]                 | very good<br>no crack formation<br>no breaking<br>no reduction of the tack | DIN EN ISO 4892-2:2013         |
| Bending resistance of butyl [after 100 hrs at +90°C and 5 hrs at -30°C] | No crack formation<br>No breaking  |                                |
| 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 Color Film  | transparent   |             |          |            |
| Standard Dimensions  | Thickness x Width   | Meters/Roll | Roll/Box | Meters/Box |
|                      | 1,5 x 50 mm   | 25          | 6        | 150        |
|                      | 1,5 x 75 mm   | 25          | 4        | 100        |
|                      | 1,5 x 100 mm  | 25          | 2        | 50         |
|                      | Special sizes on request.   |             |          |            |
| Storage              | Rolls can be stored horizontally, dry and protected from dust:<br>■ 24 months [at +20 °C]<br>Protect against mechanical damage. |             |          |            |

### SAFETY INFORMATION

|   |                                      |
|---|--------------------------------------|
| <b>Complies with</b>                        | Regulation [EC] No 1907/2006 [REACH] |
| <b>Not hazardous according to</b>           | Regulation [EC] No 1272/2008 [CLP]   |
| <b>Not subject to labeling according to</b> | Regulation [EC] No 1272/2008 [CLP]   |
| <b>Safety instructions</b>                  | see SDS                              |
| <b>Disposal instructions</b>                | 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.