EGOTAPE 4000 NAIL SEALING TAPE

is a self-adhesive, cross-laminated, thermoplastic, butyl rubber-based sealing tape. The lamination consists of an white-coloured, highly tear-resistant HDPE film that is cross-laminated. Due to the cross lamination, the nail sealing tape has a high tear resistance and thus promises long-lasting sealing even despite drilling, screwing or nailing through. With its properties and components, the nail 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 product properties:
bitumen-compatible · bitumen-free · easy processing · good adhesion and compatibility with most known materials · has an insulating effect · high tear and tear propagation resistance · high water vapour diffusion impermeability · immediately functional even without primer · noise-insulating · non-corrosive · non-shrinking · odourless · physiologically harmless · plastic · resistant to ageing, weathering, UV and long-term use · screw-tight · self-adhesive on one side · smooth foil surface · solvent-free · water pressure-tight up to 4 bar [on the foil side] · water-proof · water-resistant · when used properly and professionally, EGO Butyl has an almost unlimited service life

APPLICATION AREAS

EGOTAPE 4000 NAIL SEALING TAPE is suitable for simple and permanent sealing of nail or screw points in the roof sealing area against water penetration.

Areas of application:
roof · facade · window · air conditioning & heating · ventilation construction · marine · civil engineering · wall connection

APPLICATION NOTES

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 ECO or EGO BUTYLPRIMER PRO [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. The necessary pressure is applied with a pressure roller. Avoid folds and creases and roll out with care. 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.
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 4000 corresponds to the:

IVD Instruction Sheets:
- No. 5, 19-1, 19-2, 31

Tests:
- Compatibility with bitumen in accordance with DIN EN 1548
- Watertightness according to DIN EN 1928, method B

SUSTAINABILITY

VOC emission according to:
- EMICODE EC1^{Plus}
- 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 baubook:
- EGOTAPE 4000 is listed in baubook

Listing in the DGNB Navigator:
- EGOTAPE 4000 is listed in the DGNB Navigator

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

ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A B C

DGNB Produkt gelistet im Navigator

baubook

*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

Product-Properties	Result	in accordance with
Material Basis sealant	butyl rubber, polyisobutylene [PIB]	
Material Basis film	Highly tear-resistant HDPE film white [thickness: 100 µm]	
Application Temperature	+5 °C to +30 °C	
Service Temperature	-40 °C to +90 °C	
Viscosity	stable	DIN EN ISO 7390
Solids Content	> 99 %	DIN EN ISO 10563
µ - Value	approx. 766000	DIN EN ISO 12572
Sd-Value	Sd = µ x d	d = tape thickness in [m]

Butyleigenschaften	Result	in accordance with
Density	approx. 1.6 g/cm^3	DIN EN ISO 1183-1
Shore Hardness 00	approx. 40	DIN EN ISO 868
Compressive Strength	> 0.07 N/mm^2	LAB-01 [based on NF P30-303]
Penetration butyl [150g, 23°C, 5sec]	approx. 75 [0,1mm]* Butyl 30x30mm	DIN 51580
Peel strength butyl	approx. 20 N/25mm*	LAB-06 [based on DIN EN 29862]
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
Bending resistance of butyl **[after 100 hrs at +90°C & 5 hrs at -30°C]**	No crack formation No breaking	
Building material class	B2, normal flammability Euro class E	DIN 4102 EN 13501-1

*Average values, not intended for specification

Film-properties	Result	in accordance with
Tear strength **[test piece 2.5 cm]**	approx. 170 N/5cm lengthwise approx. 150 N/5cm transverse	ISO 527-3
Elongation at break **[test piece 2.5 cm]**	approx. 600 %	ISO 527-3
Tear Resistance	approx. 100 N	DIN EN 12310-1

AVAILABILITY AND STORAGE

Standard Color Butyl	grey
Standard Color Film	white
Standard Dimensions	

Thickness x Width	Meters/Roll	Rolls/Box	Meters/Box
1,0 x 80 mm	10	8	80
1,0 x 80 mm	30	8	240

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.