

# First EPDs for sealing tapes

## made of polyurethane and polyethylene

Sustainable construction starts with the construction products. We are the first producer to have its range of sealing tapes tested and certified in accordance with the European standard ISO 14025 and prEN 15804.

### 1. What are EPDs?

- Environmental Product Declarations (EPD) provide information about the impact construction products have on the environment.
- The data is determined according to scientific methods and tested by an independent body.
- EPDs provide important information for building evaluations by planners, architects, construction companies, property companies and facility managers.
- The EPDs are based on ISO standards and are recognised and synchronised internationally, making them relevant even beyond national boundaries.

### 2. What are EPDs required for?

- They form the data basis used for calculating the environmental balance and energy consumption of a building and are required for sustainability certification.
- Different versions of the same building can be compared in terms of ecological quality at the planning stages.
- In public housing projects EPDs are used as proof for environmental requirements.

### 3. What do our EPDs for sealing tapes contain?

- All environment-related information from the sealing tapes' life cycle (cradle to grave).
- Statements about the use of energy and resources during production, use and disposal or recycling.
- Details of the technical properties needed to assess the performance of the sealing tapes in buildings, such as service life, thermal and noise insulation or the effect on the quality of the internal ambient air.

- A comprehensive balance of all the environmental effects of our sealing tapes which are connected in any way to production of the products. The influence on the greenhouse effect, acid rain, overfertilisation, destruction of the ozone layer and smog creation are investigated in particular.

### 4. What knowledge does our EPD for sealing tapes provide?

- ✓ With respect to their overall benefits, our sealing tapes are already extremely energy-efficient.
- ✓ Their use has a sustainably positive effect on energy consumption and thus the environmental balance of buildings.
- ✓ We will rely on environmentally-friendly production methods which use resources sparingly in the future, as well as on the use of healthy, recyclable materials, thus continually improving the sustainability of our sealing tapes.



# Environmental Product Declaration in accordance with ISO 14025 and prEN 15804

## Short version

### Sealing tapes



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Declaration holder  
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Declaration number  
**EPD-BÄ-3.0**

Description of the product declared  
**Sealing tapes made of polyurethane and polyethylene from ISO-Chemie GmbH**

Area of application  
**Sealing tapes for the professional sealing of connecting joints between structural elements e.g. for windows / doors / façades / lightweight metal systems / WDVS etc.**

#### Basic principles

- DIN ISO 14025
- prEN 15804

General guidelines for the creation of type III environmental declarations

The declaration is based on the PCR document "Baukörperanschluss" PCR-BA-1.0 (Structural connection): 2011

#### Validity

This verified Environmental Product Declaration is valid exclusively for the named products and is valid for 5 years from the date of issue.

The declaration holder is fully liable for the specifications and proofs it is based on.

Date of issue:  
November 1, 2011

Next review:  
November 1, 2016

#### Scope of the eco-balance

The eco-balance was prepared in line with DIN EN ISO 14040 and DIN EN ISO 14044. The data obtained from the ISO-Chemie GmbH plant in Aalen and generic data from the "Gabi 4.4" database were taken as a basis. The eco-balance was calculated over the "cradle to grave" life cycle, paying particular consideration to all pre-chains such as raw material extraction.

#### Publication notes

The "Conditions and notes on the use of ift test documentation" apply.

Results of the eco-balance per m sealing tape		Production A1 – A5	Use B1 – B7	Post-use C1 – C4	Recycling potential D
Primary Energy, non-regenerative (PE <sub>n,reg</sub> ) in MJ		2.38	U → 0	1.43 x 10 <sup>-3</sup>	-0.28
Primary Energy, regenerative (PE <sub>reg</sub> ) in MJ		6.13 x 10 <sup>-2</sup>	U → 0	1.79 x 10 <sup>-6</sup>	-2.25 x 10 <sup>-3</sup>
Global Warming Potential (GWP 100) in kg CO <sub>2</sub> equ.		0.133	U → 0	9.47 x 10 <sup>-5</sup>	3.02 x 10 <sup>-2</sup>
Ozone Depletion Potential (ODP) in kg R11-equ.		3.0 x 10 <sup>-9</sup>	U → 0	1.92 x 10 <sup>-13</sup>	-5.02 x 10 <sup>-10</sup>
Acidification Potential (AP) in kg SO <sub>2</sub> equ.		4.64 x 10 <sup>-4</sup>	U → 0	3.01 x 10 <sup>-7</sup>	2.12 x 10 <sup>-5</sup>
Eutrophication Potential (EP) in kg PO <sub>4</sub> <sup>3-</sup> equ.		7.11 x 10 <sup>-5</sup>	U → 0	6.43 x 10 <sup>-8</sup>	5.84 x 10 <sup>-6</sup>
Photochemical Ozone Creation Potential (POCP) in kg C <sub>2</sub> H <sub>4</sub> equ.		6.18 x 10 <sup>-5</sup>	U → 0	3.82 x 10 <sup>-8</sup>	5.13 x 10 <sup>-7</sup>
Abiotic Depletion Potential elements (ADP <sub>el.</sub> ) in kg Sb equ.		2.43 x 10 <sup>-7</sup>	U → 0	2.03 x 10 <sup>-12</sup>	1.92 x 10 <sup>-9</sup>
Abiotic Depletion Potential fossil (ADP <sub>fos</sub> ) in MJ		2.10	U → 0	1.32 x 10 <sup>-3</sup>	-0.19

\*U: Use

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Signature of the Institute Manager,  
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Signature of the verifier



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