Construction

# Sika® ExpansionTape-600

## System Description

The Sika® ExpansionTape-600 is a constant elastic polymer dispersion impregnated PUR sealing tape. It fulfils the requirements of the energy conservation regulations (EnEV) and the RAL instructions.

**Uses**

Sika® ExpansionTape-600 is used to seal joints between window / door frames and adjacent building components. Sika® ExpansionTape-600 seals against wind, dust, spray water and driving rain.

**Characteristics / Advantages**

- Open Vapour diffusion structure
- Permanently elastic
- Sound and thermal insulation
- Over paintable with major dispersion paints
- Driving rain tight ≥ 600Pa

## Tests

**Approval / Standards**

Fire resistance class B1 DIN 4102

ift Rosenheim external control
Complies with DIN 18542:2009-07 BG 1
EC-1$^{plus}$

## Product Description

| | |
|---|---|
| **Form** | Pre-compressed rolls |
| **Colour** | Black |
| **Packaging** | See dimensioning |

## Storage

| | |
|---|---|
| **Storage Conditions / Shelf Life** | 24 months from date of production if stored in undamaged, original sealed containers, in dry conditions and protected from direct sunlight and temperatures between -5°C and +30°C. |

## Technical Data

| | | |
|---|---|---|
| **Chemical Base** | Impregnated PUR soft foam | |
| **Classification** | BG 1 | DIN 18542 |

| | | |
|---|---|---|
| **Joint permeability coefficient** | a ≤ 1.0m$^3$ [h m (daPa)$^{2/3}$] ift Rosenheim external controlled | DIN EN 1026 |
| **Driving rain tightness** | > 600 Pa ift Rosenheim external controlled | DIN EN 1027 |
| **Diffusion Resistance Coefficient μ** | μ ≤ 100 | DIN EN ISO 12572 |
| **Equivalent Air Layer Thickness $s_d$ -Value** | ≤ 0.5m with 50mm width | DIN EN ISO 12572 |
| **Thermal conductivity** | λ = 0.052 W/m K | DIN EN 12667 |
| **Light and weather resistance** | Requirements fulfilled | DIN 18542 |
| **Compatibility with adjacent materials** | Requirements fulfilled | DIN 18542 |
| **Fire Rating** | B1 | DIN 4102 |
| **Temperature stability range** | -30°C to +90°C | DIN 18542 |

## System Information

**Dimensioning**

**E. g. term 20 / 5-12 stands for:**

**1st figure: 20 = 20mm width of the tape**
**2nd figure: 5 - 12 = 5-12 mm =min – max width of joint, =expansion range**

**Sika® ExpansionTape-600:**

| Dimension Joint depth x width | Recommended joint width | m / Roll | No of rolls per box | Small box |
|---|---|---|---|---|
| 10 / 1-4 | 1 - 4 | 13.0 | 30 | 390 |
| 12 / 2-6 | 2 - 6 | 12.0 | 25 | 300 |
| 15 / 4-9 | 4 - 9 | 8.0 | 20 | 160 |
| 15 / 5-12 | 5 - 12 | 5.6 | 20 | 112 |
| 20 / 6-15 | 6 - 15 | 4.3 | 15 | 64.5 |
| 20 / 9-20 | 9 - 20 | 3.3 | 15 | 49.5 |

Other dimensions on request.

**Substrate Quality**

Clean and dry, homogeneous, even, free from grease, dust and loose or friable particles. Paint, laitance and any other contaminants must be removed. Window frame must be clean and free from grease.

**Application Conditions / Limitations**

**Ambient Temperature**

Between +1°C and +30°C.

**Tape Temperature**

Between +1°C and +30°C.
Warmth accelerates the expansion of the tape; cold temperatures decelerate the expansion of the tape. Best results are achieved if tape is installed with temperatures around 23°C. At 23 °C Sika® ExpansionTape-600 have to be applied within 30 minutes.

## Application instructions

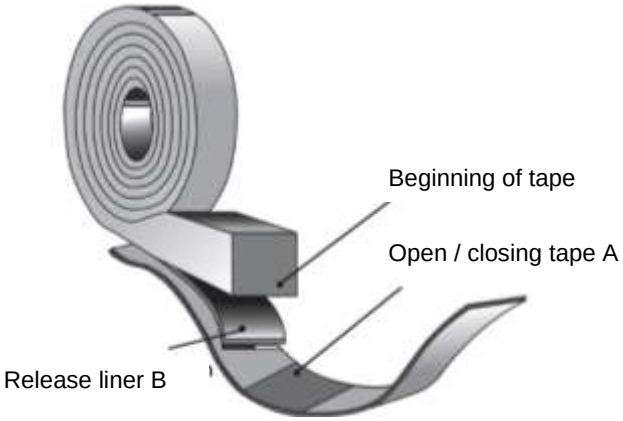
**Application Method / Tools**

After opening the box, open the roll by pulling off the opening / closing tape A. Cut the tape's beginning straight with a scissor.

Remove tape's release liner B and paste the end of the tape on the building component. Align tape to a straight line. Press tape against building component. Avoid stretching of the tape.

The tape should be approx. 10 mm longer than the sealed distance in order to be tight.

Open rolls must be rolled up quickly and tightly and closed with the opening / closing tape A in order to avoid the expansion of the tape.




**Fittings and installations**:

Before the installation of windows and doors the tape is bonded onto the frame. The tape is installed with an expansion reserve. The tape has to be cut at the frame edges; it must not be installed all round the frame in one piece. The expansion tapes have to be single pieces.

**Value Base**

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## Local Restrictions

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

**Health and Safety Information**

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

**Legal Notes**

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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