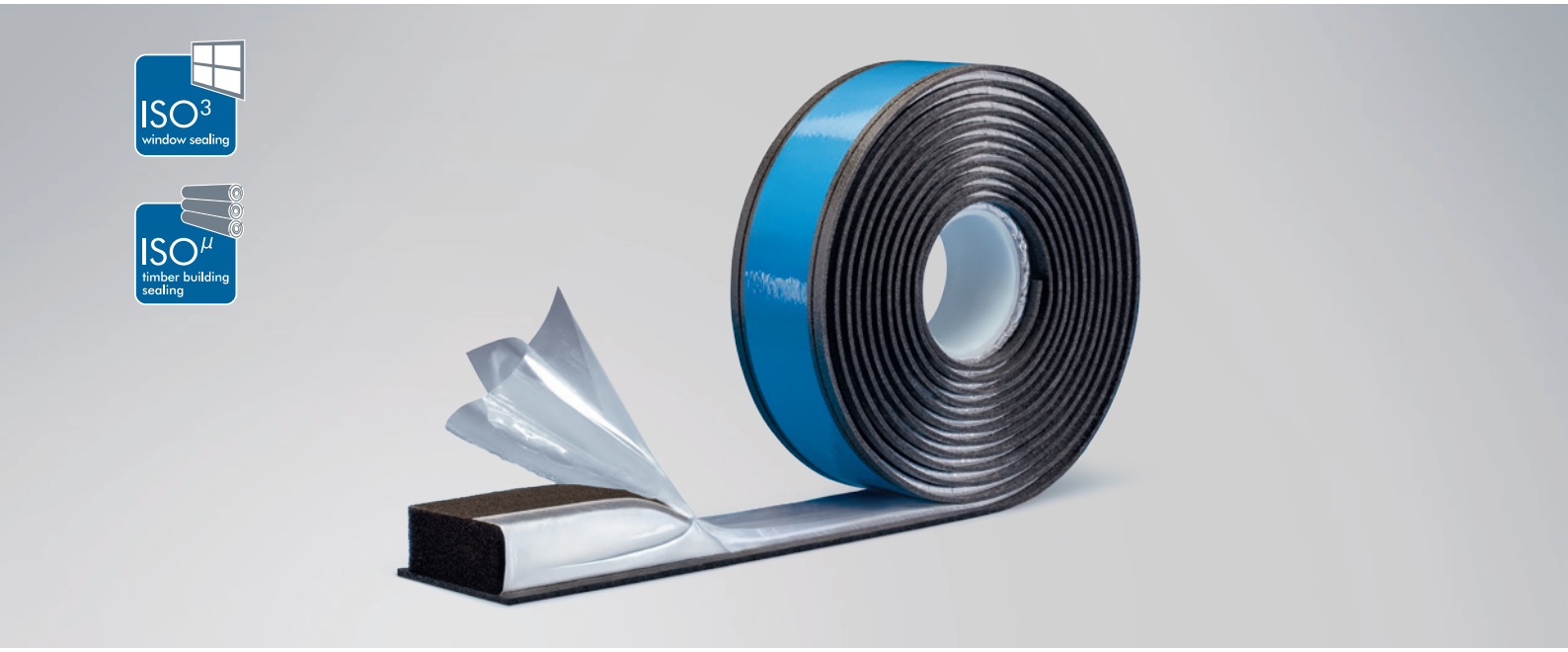
PRODUCT DATA SHEET

ISO-BLOCO ONE CONTROL

ISO CHEMIE
Use the blue technology.



PRODUCT DESCRIPTION

ISO-BLOCO ONE CONTROL is a pre-compressed multi-functional joint sealing tape packed in a tear-off activation film. Designed for sealing windows in accordance with Energy Saving Standards according to the RAL "installation guide". It was developed especially to allow simple and reliable pre-fitting. The tear-off cover ensures that the window sealing tape remains compressed, even when the roll is unwound. ISO-BLOCO ONE CONTROL now makes it possible to pre-fit a 3-level seal in the workshop. The easy-to-use pre-fitted tape packaged in a robust film combines three functional areas based on the RAL 3-level principle. The 1,000 Pa outer area offers particularly high resistance to driving rain, while the middle area provides reliable thermal and acoustic insulation. The inner area with an a-rating of 0.00 guarantees a 100 % air tight seal.

ISO-BLOCO ONE CONTROL thus helps to minimise heat losses due to convection as described in the current Energy Saving Standards. It also has an optimum vapour diffusion gradient from inside to outside (50 : 1) creating effective moisture transport to the outside and thus rapid drying of the joint.

ACCESSORIES

- ISO-TOOL Clip for quick and easy pre-fitting on PVC and aluminium windows frames
- ISO-TOOL Cut special blade for creating reliable corners

PRODUCT ADVANTAGES

- the tape is activated exactly when required for controlled expansion
- cost advantage and time saving due to straight-forward pre-fitting off site
- can be fitted regardless of the temperature or weather conditions and no need for external access
- 3-level seal with just one product and in a single operation
- a wide range of joints can be sealed with just a few tape dimensions
- resistant to driving rain to a minimum of 1,000 Pa
- high sd-value gradient, optimum moisture transport to the outside, tested and defined
- internal airtightness minimises heat losses caused by convection
- suitable for passive house construction
- conforms to the requirements of Energy Saving Standards and the principles of the RAL assembly guideline

CE DIN 18542 BG1 BGR ift tested ift ZERTIFIZIERT PATENT-PENDING

ISO-Chemie GmbH \ Wheldon House, Front Street \ Ebchester, Co. Durham, DH8 0PJ \ UK \ Tel.: +44 (0)1207 56 68 67 \ Fax: +44 (0)1207 56 68 69
www.iso-chemie.co.uk \ info@iso-chemie.co.uk

ISO-BLOCO ONE CONTROL

Technical data	Standard	Classification
Material description		impregnated PUR flexible foam with special film and tear-off activation film
Colour		black
Impermeable to driving rain	DIN EN 1027	≥ 1,000 Pa
Impermeable to driving rain on joint intersections	DIN EN 1027	≥ 600 Pa
Temperature stability range	DIN 18542	-30 °C to +80 °C
Air permeability coefficient	DIN EN 12114	$a = 0.00\,m^3/[h \cdot m \cdot (daPa)^n]$
Compatible with adjacent building materials	DIN 18542	requirements fulfiled
Dimension tolerance	DIN 7715 T5 P3	requirements fulfiled
Building material class	DIN 4102	B1 (fire resistant)
Thermal conductivity	DIN EN 12667	$\lambda_{10,tr} \leq 0.05\,W/m \cdot K$
U-value: window construction depth 70 mm / 80 mm / 90 mm	DIN 4108-3	$U = 0.7\,W/(m^2 \cdot K)$ / $0.6\,W/(m^2 \cdot K)$ / $0.55\,W/(m^2 \cdot K)$
Sound reduction		45 dB in 10 mm joint
sd-value gradient (from internal to external)	DIN EN ISO 12572	50 : 1 (internal ≥ 25 m; external ≤ 0.5 m)
Shelf life		1 year, dry and in original packing
Storage temperature		+1 °C to +20 °C

Maximum time between pre-fitting and installation as per manufacturer's specification.

Tape widths	Window construction depth*	Recommended joint width**
60 – 94 mm***	60 – 96 mm	6 – 20 mm
60 – 94 mm***	60 – 96 mm	8 – 33 mm

Alternative dimensions available on request.

* Check the compatibility list.

** Movement of the components and temporary changes of length of the existing joints should be taken into account when determining the right tape size.

*** Available tape widths correspond to current price lists.

Installation example (CB): Fitting PVC windows

Installation example (1-BT): Fitting wooden windows

APPLICATION

The tape is usually fixed to the PVC or aluminium windows frames using a clip fixing. The ISO-TOOL CLIP assembly tool is used to clip the ISO-BLOCO ONE CONTROL sealing system safely into the grooves in the window profiles, and mechanically fix it to the window frame. The ISO-TOOL CUT corner tool ensures that the corner loops are shaped reliably. The pre-fitted tape is also available with one or two high-quality self-adhesive butyl fixing strips for use with wooden windows and on narrow protiles under 65 mm deep.

After the window is aligned and fixed in the appeture, the seal is activated by pulling the activation tab which tears open the foil perforations. This allows the seal to expand, securely filling the joint within the recommended joint application area.

PACKAGING

pre-compressed tape on rolls with tear-off cover with integral activation tab

FINISHES

- Finish A: CB
  with clip fixing
- Finish B: BT
  with self-adhesive butyl fixing
  (1-BT) with one butyl-adhesive strip in the middle
  (2-BT) with two butyl-adhesive strips on the outer edges

The details and information given in this literature are based on best current knowledge. They are intended to serve as general information only and it is advised that the user conducts their own tests for their specific set of conditions to determine the suitability of the product for its proposed use. No warranty or liability is given or implied regarding any part of these instructions or details, or the completeness of the information. We reserve the right to modify, or change, the specifications and information without advance notification. All goods are supplied subject to our standard conditions of sales, copies of which are available upon request.

The latest version can be found on our website www.iso-chemie.co.uk

UK-B141015