

# 4 TIMES BETTER SEALING WITH ISO-BLOCO HYBRATEC

**ISO**  
**CHEMIE**  
Use the blue technology.

## FACTOR<sup>4</sup>



### 4x faster

Your answer to the skills shortage!



### 4x more airtight

Blower-Door-Test resistant!



### 4x more resilient to rain

Better sealing!



### 4x more expandable

Fits in every joint!



**HYFI-TECH**  
The hybrid technology  
with foil wall

# FACTOR<sup>4</sup>

YOUR PRODUCTIVITY FORMULA FOR WINDOW INSTALLATION.



# 4 x times better sealing with ISO-BLOCO HYBRATEC

**A TAPE THAT CAN DO MORE – MADE FOR PROFESSIONALS!**

Whether it's tight schedules, rising cost pressures, or a shortage of skilled workers, as a window manufacturer or installer, you face major challenges on the construction site every day. Nowadays, speed, ease of installation, and functional reliability are more important than ever.

This is precisely why we developed ISO-BLOCO HYBRATEC – equipped with pioneering **HYFI-TECH**. This innovative **hybrid technology with integrated foil firewall** combines the advantages of modern multifunctional tapes and classic foil sealing in a single product. The result: four unbeatable advantages – for window installation that seals four times better. With significantly reduced installation time, absolute airtightness, outstanding protection against driving rain, and exceptional expansion capacity, you create tangible added value for your company and your customers.

Discover on the following pages how **ISO-BLOCO HYBRATEC with FACTOR4** makes your everyday installation work more efficient, safer, easier, and therefore more economical.



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## WATCH THE INSTALLATION TIME COMPARISON IN THE VIDEO

In the video, we present our installation time comparison, which shows the differences between two methods of window sealing:

- The innovative solution with ISO-BLOCO HYBRATEC multifunctional tape
- The classic version with window connection foils + PU foam





## YOUR ANSWER TO THE SKILLS SHORTAGE!

### **SAVE INSTALLATION TIME – INSTALL MORE WINDOWS IN LESS TIME!**

Thanks to HYFI-TECH, the intelligent hybrid technology from ISO-BLOCO HYBRATEC, more windows can be installed in less time. The time saved thanks to faster sealing can be invested directly in additional construction projects – a real productivity booster for installation companies. At the same time, the profitability of each individual job improves, as more work is done for the same fixed costs. This means more profit with the same installation team.

### **ONE PRODUCT FOR THREE SEALING LEVELS – MINIMAL MATERIAL COSTS!**

Inside, the 3-layer multifunctional tape is completely airtight, soundproof and heat-insulating in the functional area, and waterproof to over 1.200 Pa rainproof. All sealing layers can be sealed in accordance with RAL standards using just one product in a single step. This simplifies procurement and storage, saves material, and reduces sources of error during installation. In addition, extra-long lengths mean very little waste is produced.

### **REDUCE LABOR COSTS – CONSERVE RESOURCES – INCREASE PRODUCTIVITY!**

Less time per window installation means noticeable savings in labor costs as well as significantly higher efficiency and resource conservation on the construction site. Your employees achieve more in less time – in times of increasing skilled labor shortages and tight schedules, these are decisive competitive advantages.

### **DELAYED EXPANSION – AMPLE TIME TO FIT!**

The time-delayed expansion of ISO-BLOCO HYBRATEC leaves enough room for precise positioning of the windows. This makes window installation quick, stress-free, and reliable – even in tricky installation situations.

#### **EXTRA LONG RUNNING LENGTHS & LARGE JOINT APPLICATION AREA**

	Joint application area	Roll length
<b>S</b>	3 – 14 mm	22,5 m
<b>M</b>	4 – 20 mm	15,0 m
<b>L</b>	6 – 40 mm	7,5 m



Thanks to the extra-long running lengths, there is hardly any waste.

\* Based on a video-documented installation time comparison, in which window sealing with ISO-BLOCO HYBRATEC was carried out in direct comparison with window connection foils in combination with PU foam. The complete video comparing installation times can be found at [www.iso-chemie.com/hybratec-factor4](http://www.iso-chemie.com/hybratec-factor4). The actual time savings may vary depending on structural conditions and workmanship.

# 4 x more airtight\*

## BLOWER-DOOR-TEST RESISTANT!



### POSITIVE IMPACT ON BUILDING ENERGY PERFORMANCE CERTIFICATES AND BLOWER DOOR TESTS!

With its multiple foil barrier layers, ISO-BLOCO HYBRATEC makes the entire installation joint completely airtight from the inside out. Uncontrolled convection heat loss or drafts via the window connection joint are no longer an issue. The multi-layer airtight barriers ensure tight installation joints during a blower door test of the entire building – even at pressure levels five times higher. In addition, the airtight joint sealing has a positive effect on the building's energy performance certificate.



### REDUCE HEAT LOSS, HEAT LESS, AND IMPRESS YOUR CLIENTS!

Thanks to its absolute airtightness, ISO-BLOCO HYBRATEC contributes significantly to reducing convective heat loss in buildings. Energy-efficient sealing with ISO-BLOCO HYBRATEC supports the sustainability strategy of many building owners and improves the ecological footprint of buildings – an increasingly important decision-making criterion for window sealing in the modern construction sector.



### IMPROVED ENERGY EFFICIENCY WITH FUTURE-ORIENTED HYBRID TECHNOLOGY!

Thanks to HYFI-TECH, ISO-BLOCO HYBRATEC offers significantly better energy efficiency than conventional sealing products. Multiple integrated foil firewalls ensure that the multifunctional tape is completely airtight, resulting in enormous energy savings and improved building energy efficiency. Multiple airtight layers provide additional security in terms of the requirements of DIN 4108-7 and the Building Energy Act (GEG).



### CERTIFIED PASSIVE HOUSE COMPONENT – HIGH SAFETY IN PASSIVE HOUSE CONSTRUCTION!

ISO-BLOCO HYBRATEC is certified by the Passive House Institute as a passive house component. It therefore meets the demanding energy quality standards for use in highly energy-efficient passive house construction. Here, a high level of airtightness in a building is of central importance in order to keep heating requirements very low. The absolute airtightness of ISO-BLOCO HYBRATEC can save a lot of heating energy – an important contribution to the energy transition!



\* Compared to the maximum permissible  $\alpha$ -value of 0,1  $[\text{h} \cdot \text{m} \cdot (\text{daPa})^{2/3}]$  according to the requirements of DIN 18542 for the joint permeability coefficient, the  $\alpha$ -value of 0,00 for ISO-BLOCO HYBRATEC is at least 4 times better.



# FACTOR<sup>4</sup>

YOUR PRODUCTIVITY FORMULA FOR WINDOW INSTALLATION.



**ISO-BLOCO HYBRATEC  
HAS BEEN AWARDED  
RECOGNIZED ENVIRON-  
MENTAL CERTIFICATES:**





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# 4 x more resilient to rain\*

## BETTER SEALING!

### OUTSTANDING PROTECTION AGAINST DRIVING RAIN – A DENSE BUILDING ENVELOPE EVEN IN EXTREME WEATHER CONDITIONS!

With over 1.200 Pa, ISO-BLOCO HYBRATEC offers a much higher level of resistance to driving rain than conventional multifunctional tapes and far exceeds the requirements of DIN 18542. Even in extreme weather conditions, this high-performance product provides reliable protection for the connection joint and keeps the building envelope tight and dry.



### PREVENT MOISTURE DAMAGE AND CONSEQUENTIAL COSTS!

Rainwater ingress – much more than just a visual problem! Leaky joints cause lasting damage to the building envelope. The integrated foil barrier layers of ISO-BLOCO HYBRATEC effectively block rainwater and keep the connection area at least 4 times drier than many single-layer multifunctional tapes. This reduces the warranty risk and is a strong selling point for planners and builders who demand durable, maintenance-free solutions.

### ADDITIONAL SAFETY FOR CONSTRUCTION PROJECTS!

Classic 3-layer waterproofing systems are highly dependent on flawless installation in order to function properly. A modern multifunctional tape such as ISO-BLOCO HYBRATEC, on the other hand, offers easy handling and a more reliable solution. Compared to conventional sealing with films, paste adhesives, PU can foams, backfill cords, and sprayable sealants, sources of error can be greatly reduced.

### IMPROVE YOUR IMAGE WITH HIGH-QUALITY WORKMANSHIP!

ISO-BLOCO HYBRATEC not only offers extremely high driving rain resistance of over 1,200 Pa, but also four times better permanent movement absorption capacity compared to sprayable sealants and PU foams, which can fail even with minor component movements. The multifunctional tape can compensate for several centimeters of joint expansion without tearing, thus providing lasting protection against moisture, cracks, and leaks – a real quality and image advantage for window installation companies.

\* With a driving rain resistance of over 1,200 Pa, ISO-BLOCO HYBRATEC has a driving rain resistance that is four times higher than the minimum requirement of 300 Pa specified in DIN 18542 (MF2).

# 4 x more expandable\*

## FITS IN EVERY JOINT!

### SEAL JOINTS FROM 6 – 40 MM WITH ONE TAPE SIZE!

In contrast to many single-layer multifunctional tapes with a limited application range of only 5–10 mm, ISO-BLOCO HYBRATEC reliably seals joints from 6–40 mm – with just one tape dimension. This reduces sources of error when selecting dimensions, simplifies logistics on the construction site by reducing the need to change materials, and ensures greater installation reliability – especially in changing installation situations.

### HIGH PROCESSING TOLERANCE – LESS REWORK!

Especially on construction sites with time pressure or limited scope, installers benefit from the strong expansion capacity and flexible adaptation of ISO-BLOCO HYBRATEC. The installation process becomes more robust in relation to installation factors such as slightly crooked joints, minor misalignments, or unevenness – which minimizes rework and improves the quality of execution. Window installation companies benefit from greater installation reliability, fewer sources of error, and a quality advantage that pays off thanks to the universal application possibilities.

### RELIABLY COMPENSATE FOR JOINT TOLERANCES THROUGH EXTREME EXPANSION!

ISO-BLOCO HYBRATEC offers at least four times greater expansion capacity than conventional multifunctional tapes. This allows it to adapt perfectly to joints of varying widths, uneven joints, and tapered joints – a major advantage on construction sites, where tolerances in execution are often unavoidable. This results in reliable sealing even with high construction tolerances and component movements.

### LOW CONTACT PRESSURE – CONSISTENT SEALING PERFORMANCE!

Despite its extremely high expansion capacity and sealing performance, ISO-BLOCO HYBRATEC does not exert excessive pressure on the joint edges. This is an important positive aspect for the long-term functionality of large, heavy elements, roller shutter boxes, and large ceiling deflections, such as those above lift-and-slide doors.

\* Based on the maximum joint application range, starting from the minimum joint application range of the dimensions of ISO-BLOCO HYBRATEC.



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Learn more



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The latest technical information can be found here: [www.iso-chemie.com/hybrates](http://www.iso-chemie.com/hybrates)

## DID YOU KNOW:

**MULTIFUNCTIONAL TAPES AND PRE-COMPRESSED JOINT SEALING TAPES FROM ISO-CHEMIE ARE COMPLETELY PFAS-FREE – AND HAS BEEN FOR YEARS!**



As a manufacturer of energy-efficient and sustainable sealing solutions, we have been relying on environmentally friendly formulations for years and consistently refrain from using per- and polyfluoroalkyl substances (PFAS).

**For you, this means:** safe processing, maximum structural performance, and an active contribution to health and environmental protection – all without any additional effort.



**ISO-Chemie GmbH**  
**Germany**  
Röntgenstraße 12  
73431 Aalen  
Tel.: +49 (0)7361 94 90-0  
[info@iso-chemie.com](mailto:info@iso-chemie.com)  
[www.iso-chemie.com](http://www.iso-chemie.com)

**United Kingdom**  
Tel.: +44 (0)1207 56 68 67  
[info@iso-chemie.co.uk](mailto:info@iso-chemie.co.uk)  
[www.iso-chemie.co.uk](http://www.iso-chemie.co.uk)