

Data Centres and HVAC: Essential Sealing and Bonding solutions

In data centres, HVAC systems are crucial for maintaining optimal temperature and air quality to protect sensitive equipment. Achieving airtightness and vibration resistance in these systems relies heavily upon effective sealing and bonding solutions.

The Role of Sealing in HVAC Performance

Sealing plays a key role in preventing air leaks in wall panels, door frames, and HVAC installations – ensuring controlled airflow, stable pressure, and contaminant-free environments.

When selecting sealants, it is important to prioritise durability, chemical resistance, and low VOC emission levels that preserve the indoor air quality. Additionally, high temperature sealing for heating systems is essential in data centres to withstand thermal stress and ensure long-term reliability.

illbruck's HVAC Sealing Solutions

illbruck offers sealing solutions specifically designed for HVAC performance in data centres:

- *TN553 Sealing Tape* – a flexible, self-adhesive PVC foam tape that adapts to uneven surfaces, reduces vibration and shock, and complies with EN ISO 846 and VDI 6022 standards.
- *SP610 Ventilation Seal* – a silicone-free, gun-grade sealant with broad adhesion and flexibility to accommodate metal expansion as well as low levels of odour and VOCs. Complies with EN ISO 846 and VDI 6022 standards.

Flexible Bonding for Modular Construction

In addition to sealing, flexible bonding reduces mechanical fixings and transfers dynamic loads between joined components – critical in modular construction.

Key bonding products include:

- *SP050 Multi Adhesive Pro* – a low-odour, solvent-free adhesive with excellent adhesion across metals, glass, PVC, and concrete.
- *SP350 High Tack Pro* – a non-sagging, elastic adhesive with strong initial grip and resistance to ageing, suitable for internal and external use.

These solutions not only ensure airtightness, but also help decouple vibrations, enhancing HVAC system reliability and longevity. Moreover, illbruck's products adhere to strict hygiene standards, avoiding undesired VOC like silicone contamination or harmful substances like solvents or isocyanates.

We hope this has helped you to narrow down your search for the right types of sealing and bonding products for your data centre.

Find out more about the types of joint sealants in our downloadable brochure or get in touch with our team of experts to discuss your individual needs today.