



SEALING & BONDING SIKA SOLUTIONS FOR MORE VALUE LESS IMPACT

BUILDING TRUST



SIKA CONTRIBUTION TO SUSTAINABLE CONSTRUCTION

More Value – Less Impact

Providing high-performance solutions – to the benefit of our customers and sustainable development

Sika is dedicated to sustainable development. We take responsibility to provide sustainable solutions in order to improve material, water and energy efficiency in construction and industry. Sika strives to create value for all its stakeholders with its products, systems and solutions along the whole value chain and throughout the entire life span of its products. The

value created by far outweighs the impacts associated with production, distribution and use. Sika is committed to measure, improve and communicate sustainable value creation. “More value, less impact” refers to the company’s life cycle approach and commitment to maximize the value of its solutions to all stakeholders while reducing resource consumption and impacts on the environment.

MORE VALUE – ENERGY SAVING

Tight building envelope saves resources and increases the quality of living

At first glance, Sealing and Bonding solutions contribute little to the environmental impacts caused by the construction of a building but are actually essential for air- and watertight building envelopes. Their proper use, performance, quality and longevity are of great importance to the total environmental performance of a building during its whole lifetime.

A professional window installation with high performance sealants and membranes reduces the energy loss by up to 80% compared to a leaking window installation. Reducing air leakage and preventing wet insulation consequently reduces the energy demand for heating and cooling. This was quantified by a study performed by the University of Applied Science for Architecture, Wood and Construction in Biel, Switzerland.

MORE VALUE – GREEN BUILDING CONTRIBUTION

For specific information regarding Green Building Programs, please contact your local Sika organization. Relevant contributions can be as follows:

| Green Building Programs | Contribution | | |
|---|--|---|---|
| | Low emissions | Tight Building Envelope | Environment and Resources |
| LEED® (Leadership in Energy and Environmental Design) | LEED v2009: <ul style="list-style-type: none"> • IEQc 4.2: Low emitting materials LEED v4: <ul style="list-style-type: none"> • EQc 2: Low emitting materials • MRc 2: Building product disclosure & optimization (EPD) • MRc 5: Building product disclosure & optimization (material ingredients) | LEED v4: <ul style="list-style-type: none"> • LEED® v4: EAc Credit 7 – LEED Homes | LEED v4: <ul style="list-style-type: none"> • MRc 2: Building product disclosure & optimization (EPD) • MRc 5: Building product disclosure & optimization (material ingredients) |
| BREEAM® (Building Research Establishment Environmental Assessment Method) | BREEAM UK: <ul style="list-style-type: none"> • Hea 02: Indoor air quality | BREEAM UK: <ul style="list-style-type: none"> • Ene 01 Reduction of energy use and carbon emissions cycle impacts | BREEAM UK: <ul style="list-style-type: none"> • Mat 01: Life cycle impacts |
| DGNB (Deutsches Gütesiegel für Nachhaltiges Bauen) | DGNB 2015: <ul style="list-style-type: none"> • SOC 1.2: Indoor air quality | DGNB 2015: <ul style="list-style-type: none"> • TEC 1.3: Building Envelope Quality – Protection against Interstitial Condensation | DGNB 2015: <ul style="list-style-type: none"> • ENV 1.2: Low environmental impact |



LESS IMPACT – INDOOR AIR QUALITY

Sika Sealing and Bonding products fulfill high standards

People spend more than 80% of their time in indoor environments: home, office, retail, leisure, education and transportation. There are various governmental and industry initiatives around the globe to reduce VOC (Volatile Organic Compounds) emissions from building materials and improve the indoor air quality. VOCs have been identified as having potential long term health impact and an adverse effect on the environment. Sika provides sealants with very low emissions, which ensure a good indoor air quality. All new Sika sealants are developed in order to comply or even to exceed the different local requirements.

SikaHyflex®, Sikaflex® and SikaBond® sealants and adhesives comply with the most stringent standards with regard to controlling the emission of VOCs like:

- Germany: EMICODE EC 1 PLUS
- France: AFFSET A+
- Finland: M1
- USA: SCAQMD Rule #1168

A complete list of the tested sealants and adhesives and their approvals are available from your Sika local organization.



LESS IMPACT – LOW IMPACT PRODUCTS

Sika Sealing and Bonding technologies evaluated with LCA and EPD

Sika offers sealing and adhesive products based on all major technologies, such as polyurethane (PU), silicones, silane-modified-polymers (SMP) and water based acrylates. Cradle-to-gate Life Cycle Assessment (LCA) and Environmental Product Declaration (EPD) are powerful tools to measure, rate, improve and disclose the environmental performance across the value chain. Therefore, Sika systematically carries out comprehensive LCAs for all major technologies and products in accordance with ISO 14040 series and EN 15804 standards.

LCAs show no major difference between the technologies. The three main sealant technologies (PU, Silicones, SMP), which are generally used for weather sealing, show – depending on the quality of the product – similar results. Each technology has its “preferred” substrate. Non-reactive water based systems like acrylics have lower environmental impacts but are mainly used for indoor applications due to lower performance in movement, adhesion and weatherability. Hence, no technology can be determined as most sustainable.

Choose the best technology for your application and seal your building well.

For further information on Sealing and Bonding LCAs and EPDs, please contact your local Sika organization.



SIKA FULL RANGE SOLUTIONS FOR CONSTRUCTION:



LIQUID APPLIED ROOFING



SINGLE PLY ROOFING



BITUMINOUS ROOFING



CONCRETE



CONCRETE REPAIR



STRUCTURAL STRENGTHENING



WATERPROOFING



JOINT SEALING



FAÇADE STRUCTURAL ADHESIVES



FLOORING



INDUSTRY



DISTRIBUTION

WHO WE ARE

Sika Limited and Sika Ireland Limited are part of the global Sika Group, specialising in the manufacture and supply of chemical based products. Sika has a leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing, and protecting in the building sector and the motor vehicle industry. Sika has subsidiaries in 101 countries around the world and manufactures in over 300 factories. With more than 24,000 employees Sika generates annual sales of CHF 7.09 billion (£5.45bn). We are also committed to providing quality, service, safety and environmental care.

In the UK and Ireland, we provide market-leading solutions for concrete, waterproofing, roofing, flooring, refurbishment, sealing & bonding, and industry, and have manufacturing sites in Welwyn Garden City, Preston, Leeds, Atherstone, Wishaw and Dublin with more than 950 employees and a turnover of more than £260 million.

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 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 proprietary rights of third parties must be observed. Please refer to our homepage www.sika.co.uk for our current standard terms & conditions applicable to all orders. Users should always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request.



SIKA LIMITED

Head Office
Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
United Kingdom

Contact

Phone +44 1 707 394444
Fax +44 1 707 329129
E-Mail enquiries@uk.sika.com
www.sika.co.uk
@SikaLimited

SIKA IRELAND LIMITED

Sika House
Ballymun Industrial Estate
Dublin 11
D11 DA2V
Ireland

Contact

Phone +353 1 862 0709
Fax +353 1 862 0707
E-Mail info@ie.sika.com
www.sika.ie
@Sikalreland

BUILDING TRUST

