



MORE **PERFORMANCE**  
MORE **SUSTAINABLE**

# SikaMembran<sup>®</sup> System

## WATERPROOFING AND VAPOR CONTROL FOR CURTAIN WALL FACADES

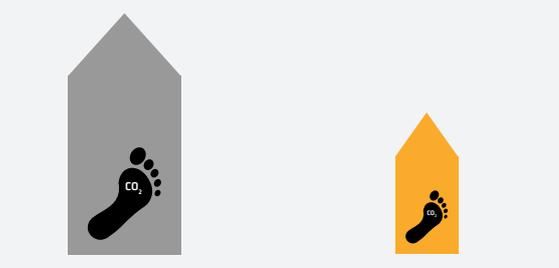
BUILDING TRUST



# WATERPROOFING AND VAPOR CONTROL FOR CURTAIN WALL FACADES

## SIKA INTRODUCES THE NEXT GENERATION OF WATERPROOFING AND VAPOR CONTROL FACADE MEMBRANES.

The new EPDM hybrid membrane is an exceptional 0.3 mm thick. Nevertheless, the mechanical values such as tensile strength and tear propagation resistance are four times and twice as high respectively as those of the equivalent EPDM 0.6 mm thick SikaMembran®. But what is just as important is the fact that the next generation of SikaMembran® has about half the ecological footprint of the first generation.

 <b>SUPER THIN</b> - half the thickness and therefore smooth processing even in difficult details	<b>53% LESS IMPACT ON CO<sub>2</sub> EMISSIONS</b>  SikaMembran® Universal      SikaMembran®-820 Allround
 <b>ULTRA-STRONG</b> - double the tear propagation resistance	
 <b>MORE SUSTAINABLE</b> - with half the carbon footprint	

All in comparison with the SikaMembran® Universal / Outdoor plus

### Innovation in “Sustainable Solutions” is an integral part of Sika’s innovation strategy and drive.

Creating value added products based on both higher performance and sustainability benefits – combining product performance and sustainability into one integral concept. This is the key objective of Sika’s strategic product innovation approach.

## SUSTAINABLE SOLUTION = BETTER PERFORMANCE + SUSTAINABILITY BENEFITS

### PERFORMANCE SOLUTION

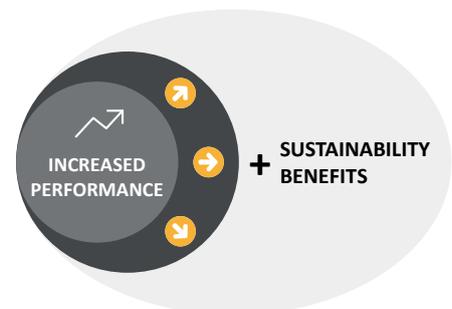


#### FOCUS ON ADDED VALUE

ALWAYS COMBINE SIKA PROVEN “VALUE THROUGH PERFORMANCE” WITH ADDED SUSTAINABILITY BENEFITS



### PERFORMANCE AND SUSTAINABILITY SOLUTION



The SPM Concept was introduced at Sika with the aim to increase the company’s portfolio of “Sustainable Solutions” and support the sustainability goals of our customers. It is aligned to the company’s overarching Group Strategy 2023 and “More Value Less Impact” Sustainability strategy, serving as a backbone to the Group’s “Sustainable Solutions” target area. It is fully integrated into Sika’s Product Development Process.

# WATERPROOFING AND VAPOR CONTROL FOR CURTAIN WALL FACADES

**DURABLE BUILDING CONSTRUCTIONS NEED PROFESSIONAL WATER PROOFING.** Especially the joints between different components are highly demanding on the building designer. Accumulated condensation within the wall construction must be transferred outward, while the outer face must withstand rain and wind.

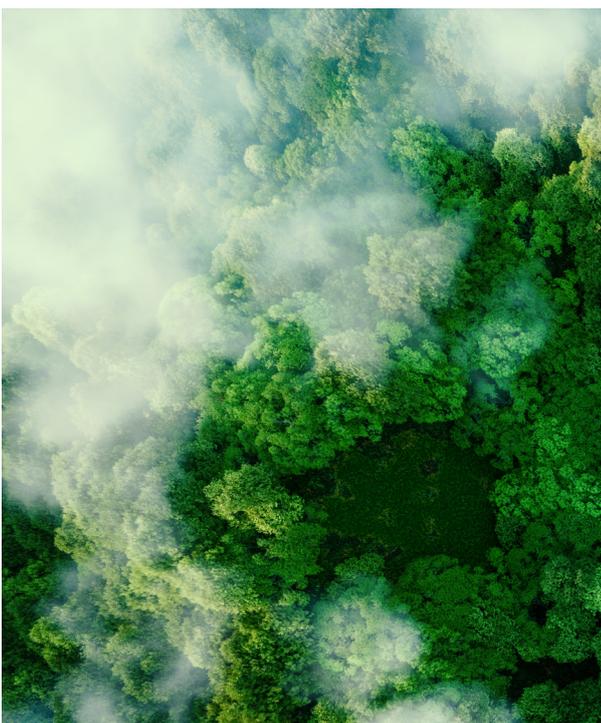
The moisture from the interior is pressured by physical forces through the wall construction together with the warm air to the outside. If the dew point temperature is reached on the way through the wall component, the vapor will condense. This moisture can damage the insulation material, favors fungal and bacterial growth, reduces the thermal insulation and leads to poor indoor air quality.

Since the wall components can bear a very limited amount of moisture only, it is more favorable to control the flow of humidity and avoid water condensation, thus ensuring the water can evaporate during time.

## **SikaMembran®-820 Allround**

EPDM Hybrid Membrane for indoor and outdoor use. Specially for suspended facades, wide joints and tall buildings with high demands on wind forces and UV radiation. Meets fire retardant requirements of EN 13501-1 Class E.

The SikaMembran® system is a vapor control system comprising of various EPDM Hybrid sheet membranes. They are suitable for most climatic conditions and provide a secure and durable vapor barrier and waterproof seal at junctions between building elements. SikaMembran® system is used for curtain walls, ventilated facades and window installations.



## **BENEFITS**

- Highly flexible waterproofing and vapor control system
- Fast, easy and secure application even in corners
- Provided with CE-mark according to EN 13984: 2013-05
- Meets fire retardant requirements of EN 13501-1 Class E
- No additional mechanical fixing necessary
- Pre-treatment free bonding on Sika® Membran-820 with Sikaflex®-525
- Suitable for uneven substrates (blowholes in concrete), leveling of substrate by adhesive
- UV-resistant
- Passes EN 1928:2000-03 Determination of watertightness treatment A
- The product meets the highest requirements of ecobau and Minergie-ECO and receives the eco1 rating.
- Conformity with LEED v4 MRc 4 (Option 2): Building Product Disclosure and Optimization - Material Ingredients

# THE SYSTEM COMPONENTS



**SikaMembran®-820 Allround**

SikaMembran® -820 Allround	
Base	Elastic EPDM Hybrid
Thickness	0.3 mm
Diffusion Resistance Coefficient $\mu$	198 920
Equivalent Air Layer Thickness $s_d$ -Value [m]	59
CE Marked	Yes
Packaging	Rolls in 25 m in various widths

# RELIABLE APPLICATION THAT LASTS

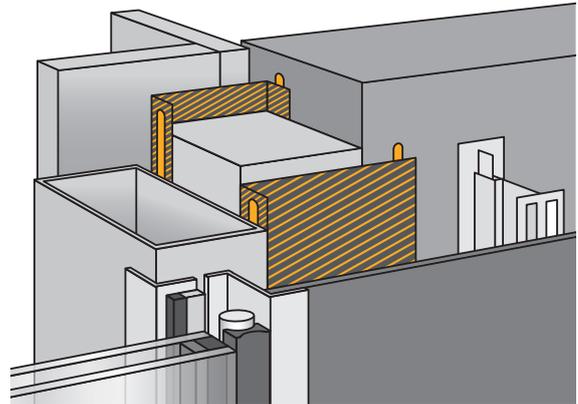
## Sikaflex®-525 – THE SYSTEM ADHESIVE

Sikaflex®-525 is a low emission 1-component isocyanate free sealant based on the Sika Silane Terminated Polymer (STP) technology adhesive for the SikaMembran®-800 series. Sikaflex®-525 adheres excellent to a wide range of substrates.

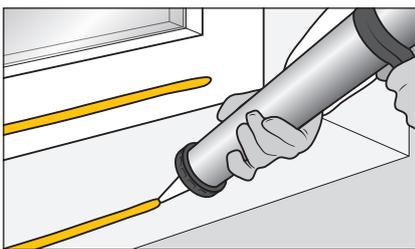
- Low odor, Isocyanate, Phtalate and PVC free

### BENEFITS

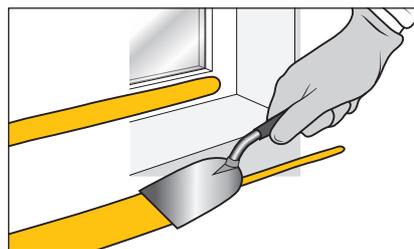
- Adhesion to concrete, anodized and powder coated aluminum, PVC, wood and other common materials
- Safe processing with non-sagging property
- No primer required on the SikaMembran®
- Ensures leveling on substrate
- Very high resistance to creep, no slipping of the sheets
- Films are yet readjusted to 30 minutes, peel off the adhesive bed / and again inserted.
- Single-sided adhesive application
- Available in unipacks
- Contributes to LEED v4 and v4.1 with credit points EQc1 "low-emitting materials"
- Complies with common VOC requirements



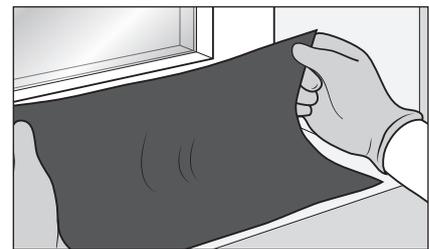
## APPLICATION



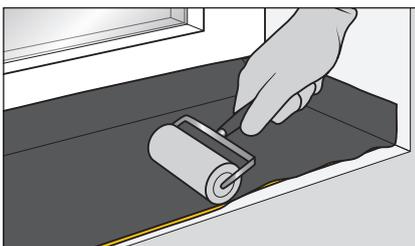
Application of adhesive.



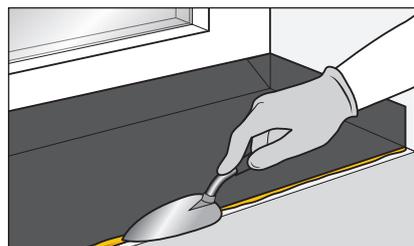
Spread adhesive with spatula 4-5 cm in width and 1-2 mm in thickness.



Apply SikaMembran® loop-shaped and free from tension.



Press the membrane with plastic roller.



Embed edge of membrane in the excess adhesive.



Membrane can be adjusted within 30 minutes after adhesive application.

# GLOBAL BUT LOCAL PARTNERSHIP

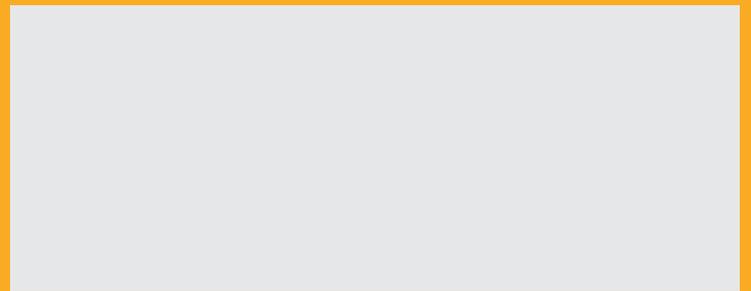


## FOR MORE INFORMATION:



[www.sika.com/facade](http://www.sika.com/facade)

Sika AG, Switzerland, is a globally active specialty chemicals company. Sika supplies the building and construction industry as well as manufacturing industries (automotive, bus, truck, rail, solar and wind power plants, facades). Sika is a leader in processing materials used in sealing, bonding, damping, reinforcing and protecting loadbearing structures. Sika's product lines feature high quality concrete admixtures, specialty mortars, sealants and adhesives, damping and reinforcing materials, structural strengthening systems, industrial flooring as well as roofing and waterproofing systems.



Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



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