

PRODUCT DATA SHEET

SikaBond® TF plus N

Elastic, 1-component adhesive for the SikaMembran® system

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base	1-component polyurethane
Color (CQP001-1)	Black
Cure mechanism	Moisture-curing
Density (uncured)	1.3 kg/l
Non-sag properties	Good
Application temperature	ambient, substrate 5 – 40 °C
Skin time (CQP019-1)	190 minutes ^A
Shore A hardness (CQP023-1 / ISO 48-4)	30 ^B
Tensile strength (CQP036-1 / ISO 527)	1.5 MPa
Elongation at break (CQP036-1 / ISO 527)	650 %
Tensile lap-shear strength (CQP046-1 / ISO 4587)	0.6 MPa ^C
Service temperature (CQP509-1 / CQP513-1)	-40 – 90 °C
Shelf life	12 months ^D

CQP = Corporate Quality Procedure

^C) 7 days at 23 °C / 50 % r. h.

^A) 23 °C / 50 % r. h.

^D) storage below 25 °C

^B) 14 days at 23 °C / 50 % r. h.

DESCRIPTION

SikaBond® TF plus N is a 1-component, PU-based adhesive for the SikaMembran® facade membrane system, which combines high mechanical strength with the necessary elasticity to cope with high movements in facades. SikaBond® TF plus N adheres excellent to a wide range of substrates.

PRODUCT BENEFITS

- Secure application with good sag resistance
- Bonds well to concrete, aluminium (anodized or powder-coated), rigid U-PVC, timber and other standard construction materials
- Application of adhesive to one side only (mostly to substrate)
- Ensures levelling of substrate
- No contact pressure necessary
- Fast curing
- Adjustment of membrane possible until 30 min. after installation

AREAS OF APPLICATION

SikaBond® TF plus N is used for bonding SikaMembran® facade membranes (e.g. SikaMembran® Universal, Outdoor, Outdoor plus, Strong, Eco Uni, Eco Out) behind curtain walling and rainscreen cladding. SikaBond® TF plus N is also suitable to bond over-plasterable membranes (e.g. SikaMembran® Uni-P) to concrete and brick wall in window installation. This product is suitable for experienced professional users only. Test with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.

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CURE MECHANISM

SikaBond® TF plus N cures by reaction with atmospheric moisture. At low temperatures the water content of the air is generally lower and the curing reaction proceeds somewhat slower.

METHOD OF APPLICATION

Surface preparation

Surfaces must be clean, dry and free from grease, oil, dust and contaminants.

Surface treatment depends on the specific nature of the substrates and is crucial for a long lasting bond.

Treat non-porous surfaces with Sika® Aktivator-205. Clean porous surfaces by wire brush and/or vacuum. On porous substrates exposed frequently to water use Sika® Primer-210 or Sika® Primer-3 N. Consider that these suggestions are based on experience and have in any case to be verified by tests on original substrates.

Application

SikaBond® TF plus N can be processed between 5 °C and 40 °C but changes in reactivity and application properties have to be considered. The optimum temperature for substrate and adhesive is between 15 °C and 25 °C. Until the adhesive is fully cured the substrate temperature must be in between 5 °C and 40 °C.

To avoid condensation on the surfaces, the temperature of the bonding substrates must be at least 3 °C higher than the dew point of the air.

The skin time is significantly shorter in hot and humid climate. The SikaMembran® must always be installed within half of the skin time. Never join bonding parts if the adhesive has built a skin.

SikaBond® TF plus N can be processed with hand, pneumatic or electric driven piston guns.

Removal

Uncured SikaBond® TF plus N can be removed from tools and equipment with Sika® Remover-208 or another suitable solvent. Once cured, the material can only be removed mechanically.

Hands and exposed skin have to be washed immediately using hand wipes such as Sika® Cleaner-350H or a suitable industrial hand cleaner and water.

Do not use solvents on skin.

Application limits

Where two or more different reactive sealants are used, allow the first to cure completely before applying the next.

The compatibility of gaskets, backer rods, and other accessory materials with SikaBond® TF plus N must be tested in advance.

Don't use the adhesive directly on bituminous, plasticiser bleeding or formwork oil containing substrates.

FUTHER INFORMATION

The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Industry.

PACKAGING INFORMATION

Unipack	600 ml
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BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are laboratory test based. Current measured values may vary do to factors beyond our influences.

HEALTH AND SAFETY INFORMATION

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

DISCLAIMER

The information, and, in particular, the recommendations relating to the application and enduse 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 accordance with Sika's recommendations. 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 user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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