

PRODUCT DATA SHEET

SikaTack® Ultrafast

Fast, black-primerless, warm applied direct glazing adhesive

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base	1-C polyurethane
Color (CQP001-1)	Black
Cure mechanism	Moisture-curing
Density (uncured)	1.1 kg/l
Non-sag properties	Very good
Application temperature	product 80 °C ambient 5 – 40 °C
Skin time (CQP019-1)	10 minutes ^A
Open time (CQP526-1)	5 minutes ^A
Curing speed (CQP049-1)	(see diagram)
Shrinkage (CQP014-1)	2 %
Shore A hardness (CQP023-1 / ISO 48-4)	60
Tensile strength (CQP036-1 / ISO 527)	7 MPa
Elongation at break (CQP036-1 / ISO 527)	400 %
Tear propagation resistance (CQP045-1 / ISO 34)	12 N/mm
Tensile lap-shear strength (CQP046-1 / ISO 4587)	4.0 MPa
Service temperature (CQP509-1 / CQP513-1)	-50 – 90 °C
Shelf life	9 months ^B

CQP = Corporate Quality Procedure

^A) 23 °C / 50 % r. h.^B) storage below 25 °C
DESCRIPTION

SikaTack® Ultrafast is an elastic 1-component polyurethane direct glazing adhesive with excellent working characteristics in terms of cut off string and non-sag properties.

PRODUCT BENEFITS

- Excellent application properties
- Compatible with Black-Primerless and All Black installation process
- Very short cut-off string
- Fast curing

AREAS OF APPLICATION

SikaTack® Ultrafast is suitable for direct glazing applications in various markets. Seek manufacturer's advice and perform tests on original substrates before using SikaTack® Ultrafast on materials prone to stress cracking. SikaTack® Ultrafast is suitable for experienced professional users only. Test with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.

CURE MECHANISM

SikaTack® Ultrafast 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 (see diagram).

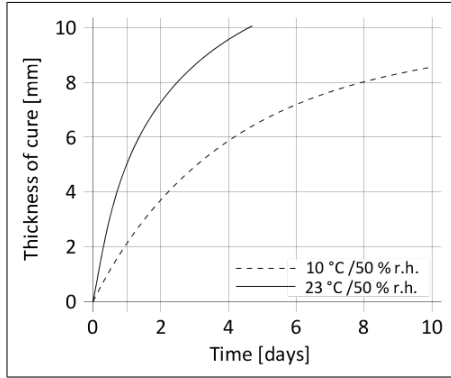


Diagram: Curing speed SikaTack® Ultrafast

CHEMICAL RESISTANCE

SikaTack® Ultrafast is generally resistant to fresh water, seawater, diluted acids and diluted caustic solutions; temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils; not resistant to organic acids, glycolic alcohol, concentrated mineral acids and caustic solutions or solvents.

METHOD OF APPLICATION

Surface preparation

Surfaces must be clean, dry and free from grease, oil and dust. Surface treatment depends on the specific nature of the substrates and is crucial for a long lasting bond. Suggestions for surface preparation may be found on the current edition of the appropriate Sika® Pre-treatment Chart. Consider that these suggestions are based on experience and have in any case to be verified by tests on original substrates. Glass without ceramic coatings need proper UV protection.

Application

SikaTack® Ultrafast can be processed at climate conditions between 5 °C and 40 °C, but changes in reactivity and application properties have to be considered. The optimum climate and substrate temperature is between 15 °C and 25 °C.

SikaTack® Ultrafast need to be heated up to 80 °C prior the application. This usually takes 60 minutes in a cartridge/ unipack oven set at 80 °C. Cartridges or unipacks can be re-heated form cold several times, but must not be kept at 80 °C for more than 10 hours in total.

To ensure a uniform thickness of the bondline it is recommend to apply the adhesive in form of a triangular bead (see figure 1).

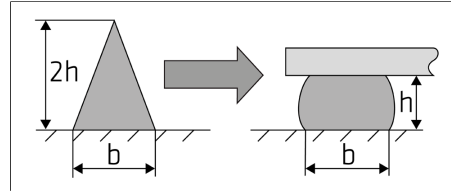


Figure 1: Recommended bead configuration

SikaTack® Ultrafast can be processed with manual, pneumatic or electric driven piston guns.

The open time is significantly shorter in hot and humid climate. The glass must always be joint within the open time. Never install glass after the product has built a skin.

Removal

Uncured SikaTack® Ultrafast 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.

FURTHER 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.

Copies of the following publications are available on request:

- Safety Data Sheets
- Sika Pre-treatment Chart
For 1-component Polyurethanes
- General Guidelines
Bonding and Sealing with 1-component Sikaflex®

PACKAGING INFORMATION

Cartridge	300 ml
Unipack	360 ml

BASIS OF PRODUCT DATA

All technical data stated in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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.