BUILDING TRUST

PRODUCT DATA SHEET

SikaTack® Plus + SikaBooster® P-50

Accelerated high-strength adhesive system

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base		Polyurethane
Color (CQP001-1)		Black
Cure mechanism		Moisture-curing [A]
Density (uncured)	Adhesive	1.2 kg/l
	SikaBooster® P-50	1.1 kg/l
Booster content	by volume	2.0 %
	by weight	1.9 %
Non-sag properties		Good
Application temperature		15 – 40 °C
Open time (CQP526-1)		5 minutes [B]
Early tensile lap-shear strength (CQP046-1 / ISO 4587)		See table 1
Shrinkage (CQP014-1)		1 %
Shore A hardness (CQP023-1 / ISO 48-4)		50
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)		4.5 MPa
Service temperature (CQP513-1)		-40 – 90 °C
Shelf life	Adhesive	6 months [C]
	SikaBooster® P-50	9 months [C]
Mixer		Statomix MS 13/18 G

CQP = Corporate Quality Procedure [A] provided by SikaBooster® P-50 [B] 23 °C / 50 % r.h. [C] storage below 25 °C

DESCRIPTION

SikaTack® Plus + SikaBooster® P-50 is an accelerated elastic polyurethane adhesive for a variety of industrial bonding applications. Suited for bonding materials relevant for direct glazing such as paints, glass, ceramic frits, painted and e-coated surfaces as well as for assembly bonding of common materials used in commercial-vehicle production.

SikaTack® Plus + SikaBooster® P-50 is compatible with Sika's black-primerless bonding process.

Owing to the use of SikaBooster® it cures largely independently of atmospheric conditions.

PRODUCT BENEFITS

- Accelerated curing and adhesion build-up
- Excellent application properties
- Suitable for automated application
- Low climate dependency of the curing speed with Sika® Booster Technology
- High mechanical strength

AREAS OF APPLICATION

SikaTack® Plus + SikaBooster® P-50 is designed especially for manual and automated direct-glazing and assembly applications out of bulk packaging where a fast build-up of adhesion and strength is required.

The use of SikaBooster® P-50 provides rapid attainment of strength and early adhesion development.

Seek manufacturer's advice and perform tests on original substrates before using SikaTack® Plus + SikaBooster® P-50 on materials prone to stress cracking.

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.

CURE MECHANISM

SikaTack® Plus + SikaBooster® P-50 cures by reaction with moisture provided by SikaBooster® P-50 and largely independent from atmospheric moisture. For typical strength build up data see table below.

Time [h]	Tensile lap-shear strength at 23 °C [MPa]
1	0.3
2	1.8
4	4

Table 1: Strength build-up of SikaTack® Plus + SikaBooster® P-50

CHEMICAL RESISTANCE

SikaTack® Plus + SikaBooster® P-50 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. All pretreatment steps must be confirmed by preliminary tests on original substrates considering specific conditions in the assembly process.

Application

SikaTack® Plus + SikaBooster® P-50 need to be processed with an adequate dispensing system. The mixer type needs to be respected (see table Typical Product Data).

SikaTack® Plus + SikaBooster® P-50 can be applied between 15 °C and 40 °C but changes in reactivity and application properties have to be considered. The optimum temperature for substrate and sealant is between 15 °C and 25 °C.

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

The open time is significantly shorter in hot and humid climate. The parts must always be joint within the open time. As a rule of thumb, a change of + 10 °C reduces the open time by half.

SikaTack® Plus + SikaBooster® P-50 is processed with an adequate pump equipment. For advice on selecting and setting up a suitable pump system, contact the System Engineering Department of Sika Industry.

Removal

Uncured SikaTack® Plus + SikaBooster® P-50 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 Guideline
  Bonding and Sealing with 1-component Sikaflex®

PACKAGING INFORMATION

SikaTack® Plus

Pail	23 l
Drum	195 l

SikaBooster® P-50

Unipack	600 ml
Pail	23 l

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

Sika Deutschland GmbH
Industry
Stuttgarter Straße 139
72574 Bad Urach
Tel. +49 7125 940-7692
verkauf.industry@de.sika.com
www.sika.de