

BUILDING TRUST

PRODUCT DATA SHEET

SikaTack® Plus PowerCure

Accelerated high strength adhesive for direct glazing and assembly applications

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base	Polyurethane	
Color (CQP001-1)	Black	
Cure mechanism	Moisture-curing ^A	
Density (uncured)	1.2 kg/l	
Non-sag properties	Good	
Application temperature adhesive	15 – 40 °C	
Open time (CQP526-1)	5 minutes ^B	
arly tensile lap-shear strength (CQP046-1 / ISO 4587) (see table 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 (CQP509-1 / CQP513-1)	-40 – 90 °C	
Shelf life	6 months ^c	

CQP = Corporate Quality Procedure

A) provided by PowerCure

B) 23 °C / 50 % r.h.

C) storage under 25 °C

DESCRIPTION

SikaTack® Plus PowerCure is an accelerated polyurethane adhesive system suitable for a variety of industrial bonding applications. The curing of SikaTack® Plus PowerCure is accelerated by Sika's PowerCure technology which makes it largely independent of atmospheric conditions.

It is made for Sika's PowerCure System and is applied using the PowerCure Dispenser.

PRODUCT BENEFITS

- Accelerated adhesive system for fast curing and strength build-up
- Curing speed almost independent of climatic conditions
- Good gap-filling capabilities

AREAS OF APPLICATION

SikaTack® Plus PowerCure is an elastic adhesive designed for applications where significant strength built-up within a short period of time is required. It is well suited for direct glazing and bonding of other vehicle parts.

This product is suitable for professional experienced users only. Test with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.

CURE MECHANISM

SikaTack® Plus PowerCure cures by reaction with moisture provided by the accelerator paste and largely independent from atmospheric moisture. For typical strength build up data see table below.

Time [h]	Strength [MPa]
2	1.1
4	3.9
6	4.2

Table 1: Tensile lap-shear strength at 23 °C / 50 % r.h.

CHEMICAL RESISTANCE

SikaTack® Plus PowerCure 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

Setup the PowerCure Dispenser according to the PowerCure Dispenser Operating Instructions. If the application is discontinued for more than 2 minutes, the mixer needs to be replaced.

SikaTack® Plus PowerCure can be processed between 15 °C and 40 °C but changes in reactivity as well as application properties need to be considered. The optimum temperature for substrate and adhesive is between 15 °C and 25 °C.

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.

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

Figure 1: Recommended bead configuration

Removal

Uncured SikaTack® Plus PowerCure 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
- General Guidelines
 Bonding and Sealing with 1-component
 Sikaflex®
- PowerCure Dispenser
 Operating Instructions and Quick Reference
 Guide

PACKAGING INFORMATION

PowerCure Pack	600 ml
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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.

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