

**BUILDING TRUST** 

PRODUCT DATA SHEET

# SikaForce®-436 L120

(formerly ADEKIT A 236-120)

Adhesive for large composite parts

### TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Properties		SikaForce®-436 L120 (A)	SikaForce®-436 (B)
Chemical base		Polyol	Isocyanate
Color (CQP001-1)		Light blue	Beige
	mixed	Green	
Density (uncured)		1.30 g/cm <sup>3</sup>	1.40 g/cm <sup>3</sup>
mixed (calculated) 1.3		1.35 g/cm <sup>3</sup>	
Mixing ratio	g ratio by volume at 25 °C 100 : 100		
	by weight	92:100	
Viscosity	at 15 s <sup>-1</sup>	95 Pa·s <sup>A</sup>	55 Pa·s <sup>A</sup>
Application temperature	ambient	15 – 35 °C	
Shore D hardness (CQP023-1 / ISO 868)		55	
Tensile lap-shear strength (CQP046-9 / ISO 4587)		13 MPa <sup>B, C, D</sup>	
Shelf life		9 months <sup>E</sup>	

CQP = Corporate Quality Procedure C) adhesive layer: 25 x 12.5 x 1 mm

room temperature.

SikaForce®-436 L120 is a structural 2- com-

ponent polyurethane adhesive, which cures at

It is designed for bonding large composite or

coated metal components. While uncured, it

has very good non-sag and compressibility be-

havior, combined with an easy smoothing.

 $^{D)}$  cured for 1 week at 23  $^{\circ}$ C **DESCRIPTION** 

## **PRODUCT BENEFITS**

A) tested at 25 °C

- Good non-sag behavior and tooling
- Gap-filling up to 30 mm in vertical applications and up to 60 mm in horizontal applications
- Combining long open time with reduced handling time
- Odor- and solvent-free
- Usable with dispensing machines equipped with pressure vessels

B) 23 °C / 50 % r. h.

 $^{\rm E)}$  stored between 15 and 25°C

## AREAS OF APPLICATION

SikaForce®-436 L120 is suitable for structural elastic bondig of composites (e.g., CFRP, GFRP) or coated metals in marine, transportation and general industry.

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

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#### **CURE MECHANISM**

The curing of SikaForce®-436 L120 takes place by chemical reaction of the two components. Higher temperatures (max. 100 °C) speed up and lower temperatures slow down the curing process. High humidity reduces the open time as well.

#### **CHEMICAL RESISTANCE**

The chemical resistance is influenced by several factors such as chemical composition, concentration, period of exposure and temperature. Therefore a project related testing in case of chemical or thermal exposure is required.

#### METHOD OF APPLICATION

#### Surface preparation

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

Based on the surface and type of material, a physical or chemical pre-treatment might be required. Type of pre-treatment must be determined by preliminary tests.

#### **Application**

SikaForce®-436 L120 is processed by 2-component equipment or by dual cartridges with pneumatic or electric driven piston guns. For cartridges use the mixer as stated, with equipment the mixer needs to be defined by tests.

Prior to application, check both components for crystallization. Never use components if crystalization has occured. Cartridge: Extrude adhesive without mixer to equalize the filling levels. Attach the mixer and dispose of a bead of at least the length of the mixer prior to the application.

Adhesion as well as curing speed can be improved by heat.

For automated applications a suitable filter system has to be used.

For support on selecting and setting up a suitable pump system, contact the System Engineering department of Sika Industry.

#### Removal

SikaForce®-436 L120 may be removed from tools and equipment with Sika® Remover-208 or another suitable solvent.

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**

The maximum service temperature is 120 °C, the minimum service temperature is -40 °C.

#### STORAGE CONDITIONS

All components of SikaForce®-436 L120 have to be stored at temperature between 15 °C and 25 °C in a dry place. Do not expose it to direct sunlight or frost. After opening of the packaging, the content has to be protected against humidity.

For transportation purposes, the storage temperature can be exceeded. For a max. period of 2 weeks temperatures between 0 °C and 40 °C are allowed.

#### **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
- ATI: Mixer alternatives for cartridges

# PACKAGING INFORMATION

SikaForce®-436 L120 (A)

Drum	266 kg
SikaForce®-436 L120 (B)	
Pail	30 kg

#### **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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