

PRODUCT DATA SHEET

SikaForce®-7888 L10

Highly structural assembly adhesive for automotive exterior parts

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Properties	SikaForce®-7888 L10	SikaForce®-7888 (B)
Chemical base	Polyols, filled	Isocyanate derivates
Color (CQP001-1)	Black	Whitish – light rose
	mixed	Black
Cure mechanism	Polyaddition	
Density (uncured)	1.58	1.17
Mixing ratio	by volume 100 : 100	
	by weight 100 : 70	
Viscosity (CQP029-4)	19 000 mPa·s	18 000 mPa·s
	mixed	65 000 mPa·s
Application temperature	ambient	15 – 40 °C
	adhesive	15 – 30 °C
Pot life (CQP536-2)	10 minutes	
Shore D hardness (CQP023-1 / ISO 48-4)	72 ^A	
Tensile strength (CQP036-1 / ISO 527)	30 MPa ^A	
Elongation at break (CQP036-1 / ISO 527)	40 % ^A	
Tensile lap-shear strength (CQP546-1 / ISO 4587)	20 MPa ^{B, C}	
Shelf life	6 months ^D	

CQP = Corporate Quality Procedure

^{A)} 7 days at 23 °C / 50 % r.h.^{C)} curing: 3 h at 105 °C^{B)} AL2024, grinded; bondline thickness: 0.8 mm^{D)} stored below 25 °C
DESCRIPTION

SikaForce®-7888 L10 is a structural 2-component adhesive. It consists of a filled polyol based resin and an isocyanate based hardener.

SikaForce®-7888 L10 is designed for structural bonding of mixed components in Automotive Industry.

PRODUCT BENEFITS

- Very good adhesion to a broad range of substrates
- Cures at room temperature
- Can be accelerated by heat
- Good non-sag properties
- Very good long-term ageing resistance
- High strength at relatively high flexibility for good crash behavior and impact resistance

AREAS OF APPLICATION

SikaForce®-7888 L10 is designed for bonding automotive parts at the assembly line. It can be considered for mixed material bonds like roof bonding and other components with high requirements on crash behaviour.

SikaForce®-7888 L10 can be accelerated by heat for rapid curing after joining.

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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SikaForce®-7888 L10

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CURE MECHANISM

The curing of SikaForce®-7888 L10 takes place by chemical reaction of the two components. Higher temperatures speed up and lower temperatures slow down the curing process. Full cure and final adhesion performance is achieved after 7 days. Lap shear strength with heat accelerated curing has to be determined specifically for each application. Factors such as substrate, heat source and device can influence the curing speed significantly.

CHEMICAL RESISTANCE

SikaForce®-7888 L10 is resistant to hydrolysis. 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

To process SikaForce®-7888 L10 adequate dosing units and mixers are required. Static or dynamic mixing equipments can be used.

Mixers must be tested and confirmed by carrying out preliminary trials under manufacturing conditions.

Adhesion as well as curing speed can be improved by heat up to max. 100 °C.

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®-7888 L10 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.

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

PACKAGING INFORMATION

SikaForce®-7888 L10 (A+B)

Cartridge	600 g
Mixer: MIXPAC™ MGQ 08-24T	

SikaForce®-7888 L10 (A)

Pail	25 kg
Drum	300 kg

SikaForce®-7888 (B)

Pail	25 kg
Drum	300 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 end use 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.