

PRODUCT DATA SHEET

SikaForce®-301

Purform® based fast-curing plastic repair adhesive

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Properties	SikaForce®-301 (A)	SikaForce®-301 (B)
Chemical base	Polyol	Isocyanate
Color (CQP001-1)	Black	White
	mixed	Black
Density	1.29 kg/l	1.21 kg/l
	mixed	1.25 kg/l
Mixing ratio	by volume	1 : 1
Non-sag properties	Good	
Application temperature	15 – 30 °C	
Working time	3.5 minutes ^A	
Mixer open time	1.5 minutes ^A	
Clamp time	15 minutes ^A	
Sanding time	30 minutes ^A	
Shore D hardness (ASTM D2240)	73	
Tensile strength (ISO 527)	26 MPa	
Elongation at break (ISO 527)	58 %	
Shelf life (CQP016-1)	24 months	

CQP = Corporate Quality Procedure

^{A)} 23 °C / 50 % r.h.

DESCRIPTION

SikaForce®-301 (Purform®) is based on Purform®, an industry-leading polyurethane with less than 0.1 % monomeric diisocyanate for better health protection and occupational safety.

SikaForce®-301 (Purform®) is specifically designed to repair plastic parts in an automotive workshop. It provides good adhesion on various plastic types and is over-paintable with nearly all types of paint.

PRODUCT BENEFITS

- Less than 0.1 % monomeric diisocyanate for better health protection and occupational safety
- Good adhesion on a wide variety of substrates
- Fast curing at room temperature
- Suitable to sand after just 30 minutes
- Over paintable
- No sagging or dripping
- No shrinkage

AREAS OF APPLICATION

SikaForce®-301 (Purform®) is used in the automotive workshop for plastic repair jobs such as damage on bumpers, bonding of plastic parts and brackets, recreating of plastic clips, or filling of unused sensor openings and small holes.

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®-301 (Purform®) takes place by chemical reaction of the two components. It cures at ambient temperature. The curing speed can be accelerated by temperature using infrared lamps or ovens for a minimum of 5 minutes. However, it must be ensured that the repaired area does not heat up to more than 50 °C.

METHOD OF APPLICATION

Surface preparation

Clean and degrease entire bonding surfaces widely with Sika® Cleaner G+P and a clean towel. Afterwards abrade surfaces with 80 – 180 grit sanding paper.

Clean entire bonding surfaces once again with Sika® Cleaner G+P and a clean towel. Make sure the surface is completely dry and no moisture remains before the next process step.

Spray a thin coat SikaForce®-300 Primer on both sides and flash off for at least 5 minutes. Additional surface treatment depends on the specific nature of the substrates.

Application

SikaForce®-301 (Purform®) has to be processed between 15 °C and 30 °C (product, ambient, and substrate temperature).

Extrude the adhesive without the mixer to equalize the levels. Attach the static mixer, dispense one-third of the mixer length, and dispose of it prior to starting the adhesive applied on the bonding surfaces

Dispense SikaForce®-301 (Purform®) with adequate piston guns. In order to achieve proper mixing, Mixer Tips for SikaForce®-301 (part of the packaging and sold separately) are required.

After dispensing, leave the mixer on the cartridge till the adhesive is used again. The remainder of the adhesive will have a shelf life of several weeks if stored properly.

To start using SikaForce®-301 (Purform®) again, remove the static mixer and dispose of it properly. Carefully clean the cartridge outlet. Afterwards, connect a new mixer and start dispensing as described above.

Sika Contouring Film and Reinforcement Mesh are available for reshaping and modeling tasks.

Removal

Uncured SikaForce®-301 (Purform®) may 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.

STORAGE CONDITIONS

Uncured SikaForce®-301 (Purform®) has to be kept between 15 °C and 30 °C in a dry place. Do not expose it to direct sunlight or frost.

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
- Application manual Repair of Plastic Bumper

PACKAGING INFORMATION

Dual cartridge	50 ml
Mixer Quadro 73 mm	

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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