

PRODUCT DATA SHEET

SikaForce®-712 L80

Long open time, low viscous 2-component adhesive for panel bonding

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Properties	Component A SikaForce®-712 L80	Component B SikaForce®-010
Chemical base	Polyols	Isocyanate derivatives
Color (CQP001-1)	Beige	Brown
	mixed	Beige
Cure mechanism	Polyaddition	
Density (uncured)	1.46 g/cm ³ (12.2 lb/gal)	1.23 g/cm ³ (10.3 lb/gal)
	mixed (calculated)	1.41 g/cm ³ (11.8 lb/gal)
Solid content	100 %	100 %
Mixing ratio	by volume 100 : 30	
	by weight 100 : 26	
Viscosity (CQP029-4)	Rheometer, PP25, shear rate 10 s ⁻¹ , d=1 mm 7000 mPa·s ^A	300 mPa·s ^A
	mixed	4000 mPa·s ^A
Application temperature	15 – 30 °C (59 – 86 °F)	
Pot-life (CQP536-3)	85 minutes ^A	
Open time (CQP526-3)	155 minutes ^A	
Press time (CQP590-4)	1 MPa (140 psi)	205 minutes ^A
Shore D hardness (CQP023-1 / ISO 48-4)	70 ^B	
Tensile strength (CQP543-1 / ISO 527)	14 MPa (2050 psi) ^B	
Elongation at break (CQP543-1 / ISO 527)	55 % ^B	
Tensile lap-shear strength (CQP546-1 / ISO 4587)	10 MPa (1450 psi) ^B	
Shelf life	12 months	9 months

CQP = Corporate Quality Procedure

^{A)} 23 °C (73 °F) / 50 % r.h.^{B)} 12 weeks at 23 °C (73 °F) / 50 % r.h.
DESCRIPTION

SikaForce®-712 L80 is a long open time, low viscous 2-component polyurethane adhesive for bonding sandwich panels and similar constructions of various materials.

PRODUCT BENEFITS

- Low density
- Low viscosity
- Long open time
- Room temperature curing
- Solvent free

AREAS OF APPLICATION

SikaForce®-712 L80 is used primarily for bonding of metal, fiber cement, wood and glass fiber reinforced plastic to expanded and extruded polystyrene foam, polyurethane foam and mineral wool in the manufacturing of sandwich elements and other constructions.

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

PRODUCT DATA SHEET

SikaForce®-712 L80

Version 06.01 (01 - 2025), en_US
012104577120001050

CURE MECHANISM

The curing of SikaForce®-712 L80 takes place by a chemical reaction of the two components. Higher temperatures speed up the curing process and lower slow it down.

CHEMICAL RESISTANCE

In case of chemical or thermal exposure, conduct project related testing.

METHOD OF APPLICATION

Product preparation

Component A must be stirred thoroughly before use.

Surface Preparation

Surfaces must be clean, dry and free from grease, oil, dust and contaminants. After the cleaning process, a physical or chemical pre-treatment might be required, depending on surface and type of material. The type of pre-treatment must be determined by tests.

Application

Typically a coat weight between 150 and 350 g/m² (14 and 33 g/ft²) is applied, depending on the substrates to be bonded. The specific coat weight for a given substrate combination must be determined by tests.

The procedure for manual application is as follows: Ensure that the A-component is stirred thoroughly to avoid any sediment or separation, taking care not to stir too vigorously as this may introduce air into the product. Add the B-component in the specified ratio and stir thoroughly, ensuring a homogeneous mixture is achieved.

Apply before reaching half of the pot-life and join parts together within the open time. Consider that, if mixed in larger amounts, the exothermic reaction can reduce the pot-life and open time significantly.

For automated applications, contact the System Engineering Department of Sika Industry.

Pressing

An adequate bonding pressure is necessary to obtain a voidless contact between the substrates and the adhesive. The specific pressure is, however, dependent on the core material and must be determined by tests. The pressure must always be below the maximum compressive strength of the core. After starting the press process, do not release the pressure until the press time has elapsed.

Removal

Uncured SikaForce®-712 L80 may be removed from tools and equipment with SikaForce®-096 Cleaner. Once cured, the material can only be removed mechanically.

Hands and exposed skin have to be washed immediately using a suitable industrial hand cleaner and water.

Do not use solvents on skin.

STORAGE CONDITIONS

SikaForce®-712 L80 has to be kept between 10 °C and 30 °C (50 °F and 86 °F) 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.

The lowest allowed temperature during transportation is -20 °C (-4 °F) for max. 7 days.

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®-712 L80 (A)

Drum	280 kg
------	--------

SikaForce®-010 (B)

Drum	250 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.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by contacting SIKA's Technical Service Department via email at tsmh@us.sika.com. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.** Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <http://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling +1 800-933-7452.

PRODUCT DATA SHEET

SikaForce®-712 L80
Version 06.01 (01 - 2025), en_US
012104577120001050

Sika Corporation

30800 Stephenson Highway
Madison Heights, MI 48071
U.S.A.
Telephone: +1 248-577-0020
Email: tsmh@us.sika.com
www.sikausa.com

