

SikaForce®-7780 L05^{CA}

Flexible Bonding and Filling Compound

Technical Data

	Comp. A: (Resin)	Comp. B: (Hardener)
Chemical Base	Polyols, filled	Isocyanate derivatives, unfilled
Colour	White	Black
Colour - Mixed	Grey	
Reaction Mechanism	Polyaddition	
Density	1.5 kg/cm ³ approx	1.2kg/cm ³ approx
Solids Contents	100%	
Mixing Ratio	By volume By weight	100 : 10 100 : 8.4
Pot Life at 25 °C ¹	5 minutes approx	
Shore A Hardness ² (ASTM D2240)	80 approx	
Elongation at Break ³ (ASTM D638)	35% approx	
Tensile Strength ³ (ASTM D638)	2.2 N/mm ² approx	
Application Temperature Range	15 °C to 30 °C	
Shelf Life ² (in original closed packaging)	12 months	
¹ Time to viscosity increases to 100.000 mPa·s in rheomat; ² Testing temperature: 23°C, 50% Relative Humidity; curing conditions: 48 hrs RT + 3 hrs 105 °C + 24 hrs RT; ³ Film thickness of test samples: 3mm, testing temperature 23 °C; curing: 7 days RT.		

Description

SikaForce®-7780 L05 is a two-component flexible bonding and filling compound. It consists of a filled polyol-based resin and an isocyanate-based hardener. The extruded mixture is initially liquid, but attains high non-sag properties after 3 minutes. It is applicable for a further 9 minutes. Due to the rapid cure, assembled parts can sustain high loads after a short time. The two components are processed manually or by means of suitable metering and mixing equipment. SikaForce®-7780 L05 is manufactured in accordance with the ISO 9001/14001 quality assurance system.

Product Benefits

- Pourable and applicable by trowel or spatula;
- Processable by metering and mixing equipment;
- Rapid curing; cures at room temperature;
- Tough and flexible;
- Can be sanded with low dust emission;
- Overpaintable;
- Ageing-resistant.

Areas of Application

SikaForce®-7780 L05 is a flexible, two-component polyurethane bonding and filling compound. It can be applied by trowel or spatula, or directly from a two-component cartridge, and provides toughness as well as flexibility. It is designed for levelling floor elements, both in industry and transportation.

Cure Mechanism

SikaForce®-7780 L05 cures by the reaction of the two components. At high temperatures, the Open and Set times are shorter, and vice versa.



Chemical Resistance	Cured SikaForce®-7780 L05 is resistant to hydrolysis. As the chemical resistance depends on type and condition of the substrate, chemical concentration, exposure, duration and temperature, a project-adapted adhesive performance test is strongly recommended. For specific information, contact the Technical Services Department of Sika Industry.
Method of Application	SikaForce®-7780 L05 can be applied both manually or by means of metering equipment with dynamic or static mixers. For advice on selecting and setting up a suitable pump system, as well as on the techniques of pump-operated application, please contact our System Engineering Department. For manual application, the mixing period should not be shorter than 30 seconds. Avoid any intake of air during the mixing. The mixture can be poured immediately after mixing. After 3 minutes, the material becomes thixotropic and can be applied by trowel or spatula for the next 2 minutes. After approximately 1 hour cure time at room temperature, the material can be walked upon and after 3 hours, it can be sanded (using 60 or 80 grit abrasive paper). The working time stated above is intended for general guidance only and assumes that the material will be applied at room temperature (between 18 °C and 25 °C) The application temperature must be higher than 15 °C.
Surface Preparation	Bonding area must be clean, dry and free from grease, oil and dust. In the case of wooden substrates, the moisture content must not exceed 12%. On wood, normally no other pretreatment is necessary. Due to a variety of substrates and mechanical load requirements, consultation with our Technical Services is advisable.
Removal/Clean-up	SikaForce®-7780 L05, in its uncured state, may be removed from tools and equipment with N-Methylpyrrolidone or solvents like isopropanol, acetone, etc. Once cured, material can only be removed mechanically. Hands and exposed skin should be washed immediately using Sika® Handclean towels or other suitable industrial hand cleaner and water. Do not use solvents!
Storage	Resin and Hardener are sensitive to moisture. Therefore, they must be stored in tightly closed containers. After product use, the containers must be closed immediately. The resin must be stored between 5 °C and 25 °C. During shipping, both components can be exposed to temperatures as low as -10 °C for a maximum of 3 days. Do not use crystallized or non-homogeneous components.
Further Information	Copy of the following publication is available upon request: Material Safety Data Sheet.
Packaging	490 ml dual cartridges.
Value Bases	All technical data stated in this Product Data Sheet are laboratory test-based. Current measured values may vary due to factors beyond our influence.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the current Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data for the appropriate type of substance. Product Data Sheets and Material Safety Data Sheets are available on our website at: www.sika.ca or via your local Sika representative.

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, within their shelf life. 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 recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request or can be accessed in the Internet under www.sika.ca.

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