

SikaForce®-7780 L12 CA

The flexible bonding and filling compound

Technical Product Data

	Component A (Resin)	Component B (Hardener)
Chemical base	Polyols, filled	Isocyanate derivates, unfilled
Reaction Mechanism	Polyaddition	
Colour	White	Black
Mixing Colour	Grey	
Density	1.5 g/cm ³ approx.	1.2 g/cm ³ approx.
Solid Content	100%	
Mixing ratio	100	8.4
parts per weight		
parts per volume	100	10
Pot life at 25°C ¹⁾	12 mins approx.	
Shore A hardness ²⁾ (ASTM D2240)	80 approx.	
Elongation at break ³⁾ (ASTM D630)	35% approx.	
Tensile strength ³⁾ (ASTM D638)	2.2 N/mm ² approx.	
Application temperature range	15 - 30°C	
Shelf life ²⁾ (in original closed packaging)	12 months	

¹⁾ Time to viscosity increase 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: 3 mm, testing temperature 23°C; curing : 7 days RT

Description

SikaForce®-7780 L12 CA 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 receives high non-sag properties after 3 minutes. It is applicable for 9 further minutes. Due to the rapid cure there can be early put load on the assembled parts. The components are processed manually or by means of suitable metering and mixing machines.

SikaForce®-7780 L12 CA 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 machines
- Rapid curing
- Room temperature curing
- Tough and flexible
- Can be ground with low dust emission
- Overpaintable
- Ageing resistant

Areas of Application

SikaForce®-7780 L12 CA is a two component polyurethane flexible bonding and filling compound. It can be applied by trowel or spatula and provides as well toughness as flexibility. It is designed for leveling of floor elements both in industry and transportation.

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

Industry



Cure Mechanism

The curing of SikaForce®-7780 L12 CA takes place by chemical reaction of the two components. Higher temperatures hasten the curing process, lower temperatures extend the curing process.

Chemical Resistance

SikaForce®-7780 L12 CA 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.

Method of Application

SikaForce®-7780 L12 CA can be applied both manually or by means of a metering machine with dynamic or static mixers.

For advice on selecting and setting up a suitable pump system, as well on the techniques of pump operated application, please contact our System Engineering.

For manual application the mixing period should not be shorter than 30 seconds. Avoid any intake of air during 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 9 minutes.

After approx. 3 hours cure time at RT the material is overwalkable and after 6 hours it can be ground (use 60 or 80 grit abrasive paper). The working times stated above are intended for general guidance only and assume that the material will be applied at room temperature (between 18°C to 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 timber 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, technical consultations with our technical service department are in any case advisable.

Cleaning Up

SikaForce®-7780 L12 CA in uncured state may be removed from tools and equipment with N-Methylpyrrolidone or solvents like isopropanol, acetone, etc. Once cured, the material can only be removed mechanically.

Storage

Resin and Hardener are sensitive to moisture. Therefore they have to be stored in tightly closed containers. After product take-out the containers have to be closed immediately.

The resin must be stored between 5°C to 25°C. It has to be stirred before use. The hardener must be stored between 15°C to 25°C. During delivery both components can be exposed to temperatures down to -10°C for a maximum of 3 days. Do not use crystallized or non-inhomogeneous components.

Further information

Copies of the following publications are available on request:

– Material Safety Data Sheet

Packaging Information

Component A Resin	Pail / 1 L
Component B Hardener	Pouch / 100 mL

Value Basis

All technical data stated in this Product Data Sheet and laboratory test based. Current measured values may vary due to factors beyond our control.

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.

All Product Data Sheets and Material Safety Data Sheets are also available on our web site.

Legal Notes

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.

Further information available at:
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