

## PRODUCT DATA SHEET

## Sikasil® FS-665 SL

Self-levelling fire-rated sealant

## TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base	1-component silicone
Colour (CQP001-1)	Black
Cure mechanism	Moisture-curing
Cure type	Neutral
Density (uncured)	1.48 kg/l
Non-sag properties (CQP061-4 / ISO 7390)	Self-levelling
Application temperature	ambient 5 – 40 °C
Skin time (CQP019-1)	40 minutes <sup>A</sup>
Tack free time (CQP019-3)	240 minutes <sup>A</sup>
Curing speed (CQP049-1)	(see diagram)
Shore A hardness (CQP023-1 / ISO 48-4)	15 <sup>B</sup>
Tensile strength (CQP036-1 / ISO 527)	0.6 MPa
100 % modulus (CQP036-1 / ISO 527)	0.2 MPa
Elongation at break (CQP036-1 / ISO 527)	400 %
Tear propagation resistance (CQP045-1 / ISO 34)	3 N/mm
Service temperature	-40 – 150 °C
Shelf life	12 months <sup>C</sup>

CQP = Corporate Quality Procedure

<sup>A)</sup> 23 °C / 50 % r. h.<sup>B)</sup> 14 days curing at 23 °C / 50 % r. h.<sup>C)</sup> storage below 25 °C

## DESCRIPTION

Sikasil® FS-665 SL is a fire-rated, self-levelling, low-modulus, silicone sealant with good adhesion to a wide range of porous and nonporous substrates. It is mainly used for floor joints and where fire rated sealing products are required.

## PRODUCT BENEFITS

- Optimised flow behaviour for filling complex facade profile geometries
- Sealant for movement joints in floors for interior applications according to EN 15651-4, PW INT 25LM, DoP 26723758, certified by Control Body 1119, and provided with the CE-mark
- Good UV and weathering resistance
- Meet classification of reaction to fire DIN EN 13501-1: Class B-s1, d0  
Report-No. 23-001695-PR03, ift Rosenheim, Germany, September 2023

## AREAS OF APPLICATION

Sikasil® FS-665 SL can be used in horizontal joints between curtain wall facades and floor slabs to prevent spreading of fire and smoke. It is also suitable in other industrial applications where good UV, thermal and fire resistance are required.

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

## PRODUCT DATA SHEET

Sikasil® FS-665 SL

Version 04.01 (10 - 2023), en\_GB  
012603166659001010

## CURE MECHANISM

Sikasil® FS-665 SL cures by reaction with atmospheric moisture. At low temperatures the water content of the air is generally lower and the curing reaction proceeds somewhat slower (see diagram 1).

The curing speed of the reaction depends mainly on the relative humidity and temperature. Material temperature above 50 °C could lead to bubble formation and has to be avoided.

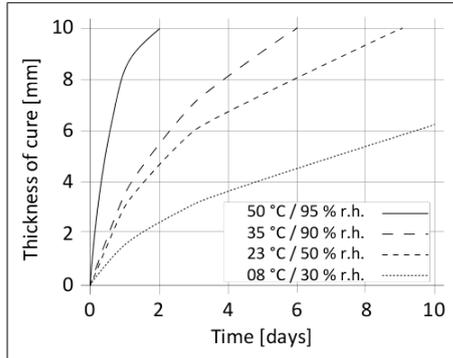


Diagram 1: Curing speed Sikasil® FS-665 SL

## METHOD OF APPLICATION

### Surface Preparation

Surfaces must be clean, dry and free from grease, oil and dust. Surface treatment depends on the specific nature of the substrates and is crucial for a long lasting bond.

### Application

The optimum temperature for substrate and sealant is between 15 °C and 25 °C.

Sikasil® FS-665 SL is poured into suitable prepared joints.

Joints must be properly dimensioned.

For optimum performance the joint width needs to be designed according to the movement capability of the sealant based on the actual expected movement.

Joints deeper than 15 mm must be avoided.

For backfilling various materials have been evaluated including fibre boards and mineral wool.

## Removal

Uncured Sikasil® FS-665 SL can 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.

## Application Limits

To exclude materials influencing Sikasil® FS-665 SL, all materials such as gaskets, tapes, setting blocks, sealants, etc., in direct and indirect contact have to be approved by Sika in advance.

Where two or more different reactive sealants are used, allow the first to cure completely before applying the next. Sikasil® FS-665 SL may only be used in combination with structural glazing applications after a detailed examination of the corresponding project details.

Do not use Sikasil® FS-665 SL on PMMA and PC elements as it may cause environmental stress cracking (crazing).

## 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

Pail	25 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

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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.

## PRODUCT DATA SHEET

Sikasil® FS-665 SL  
Version 04.01 (10 - 2023), en\_GB  
012603166659001010

## SIKA LIMITED

Watchmead  
Welwyn Garden City  
Hertfordshire, AL7 1BQ  
Tel: 01707 394444  
Web: [www.sika.co.uk](http://www.sika.co.uk)  
Twitter: @SikaLimited

