

# Sikasil® SG-550

## DECLARATION OF PERFORMANCE

### No. 60241468

<b>1</b>	<b>UNIQUE IDENTIFICATION CODE OF THE PRODUCT-TYPE:</b>	60241468
<b>2</b>	<b>INTENDED USE/S</b>	ETA-11/0392/ ETAG 002 Part 1 Edition March 2012 used as EAD Structural Sealant Glazing Kit: Structural Sealant
<b>3</b>	<b>MANUFACTURER:</b>	Sika Services AG Tüffenwies 16-22 8064 Zürich
<b>4</b>	<b>AUTHORISED REPRESENTATIVE:</b>	
<b>5</b>	<b>SYSTEM/S OF AVCP:</b>	System 1 for SSGS kit Types II and IV, System 2+ for SSGS kit Types I and III
<b>6b</b>	<b>EUROPEAN ASSESSMENT DOCUMENT:</b>	Guideline for European technical approval (ETAG) No. 002 Structural Sealant Glazing Systems (SSGS) - Part 1: Structural Sealant Glazing System, edition March 2012, used as European Assessment Document (EAD)
	European Technical Assessment:	ETA-11/0392 of 08/11/2016
	Technical Assessment Body:	Österreichisches Institut für Bautechnik
	Notified body/ies:	0757

#### Declaration of Performance

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## 7 DECLARED PERFORMANCE/S

The assessment of the fitness for use of the structural sealants for the intended use in relation to the basic requirements for construction works are carried out in accordance with ETAG 002 - Part 1.

Basic requirements for construction works	
BWR2	Reaction to fire: class F
BWR3	Dangerous substances: The manufacturer made a declaration of conformity to the Council Directive 76/769/EEC and its amendments
BWR4	The characteristics of the sealants have been established on the basis of test results in accordance to chapter 5.1.4 of ETAG 002-1.
BWR6	Energy economy and heat retention: No evaluation made on the sealant. The thermal conductivity to be taken into account for further calculation on structural sealant glazing kit is $\lambda=0.35 \text{ W/(m}\cdot\text{K)}$ .
BWR7	Sustainable use of natural resources: No performance assessed

### 3.1 Safety in case of fire (BWR 2)

#### 3.1.1 Reaction to fire

Class F - according to EN 13501-1.

### 3.2 Hygiene, health and environment (BWR 3)

#### 3.2.1 Release of dangerous substances

According to the manufacturer's declaration "Sikasil® SG-550" does not contain dangerous substances detailed in Council Directive 67/548/EEC and Regulation (EC) no 1272/2008 as well as EOTA TR 034 (General ER 3 Checklist for ETAGs/CUAPs/ETAs- Content and/or release of dangerous substances in products/kits), edition March 2012.

A written declaration in this respect was submitted by the ETA-holder.

In addition to the specific clauses relating to dangerous substances contained in this European Technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

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### 3.3 Safety and accessibility in use (BWR 4)

#### 3.3.1 Properties and characteristics of the sealants

Properties & Characteristics	Sikasil® SG-550
Design stress in tension $\sigma_{des}$	0.20 MPa
Design stress in dynamic shear $\tau_{des}$	0.13MPa
Design stress in static shear $\tau_{\infty}$	0.013 MPa
Elastic modulus in tension or compression E	1.87 MPa
Elastic modulus in shear tangential to G	0.63 MPa
Elastic modulus in tension at 12,5% elongation $K_{12.5}$	5.60 MPa
Resistance to tearing	1.13
Colour	black
Working time at 23°C 50 % RH	approx. 10 min
Tack free time at 23°C 50 % RH	150 min
Minimum time before transportation of the bonded unit	3 days
Specific mass	$V_{mean} = 1.34 \text{ kg/l}$
Hardness A	55
Thermogravimetric analysis	Curve kept in ETA technical file
Water vapour permeability	$19.0 \pm 0.3 \text{ g/(m}^2 \cdot 24\text{h)}$
Gas (Argon) permeability (2 mm foil)	$0.923 \pm 0.04 \text{ g/ m}^2 \text{ h}$

Nevertheless, earlier transportation on work site is possible if the following two conditions are respected (see ETAG Table 10: checks during the production): The tested H-samples give the following result: rupture 90 % cohesive and break stress  $\geq 1.0 \text{ MPa}$ .

#### 3.4 Energy economy and heat retention (BWR 6)

No performance assessed.

#### 3.5 Sustainable use of natural resources (BWR 7)

No performance assessed.

#### 3.6 General aspects relating to fitness for use

All the specific aspects of durability of the fitness for use of Sikasil® SG-550 are particularly covered at ER4 according to ETAG002, used as EAD.

Nevertheless, earlier transportation on work site is possible if the following two conditions are respected (see ETAG Table 10: checks during the production): The tested H-samples give the following result: rupture 90% cohesive and break stress  $\geq 1.0 \text{ MPa}$ .

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**8 APPROPRIATE TECHNICAL DOCUMENTATION AND/OR -  
SPECIFIC TECHNICAL DOCUMENTATION**

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The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

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Name: Andrew Gillard  
Function: Business Unit Manager  
At Welwyn Garden City on 09 June 2019.

Name: Ana Mourato  
Function: Product Manager  
At Welwyn Garden City on 09 June 2020



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End of information as required by Regulation (EU) No 305/2011

## FULL CE MARKING

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Sika Services AG, Zurich, Switzerland
60241468
ETAG 002 Part 1 Edition March 2012 used as EAD
Notified Body 0757
Structural Sealant Glazing Kit: Structural Sealant

The assessment of the fitness for use of the structural sealants for the intended use in relation to the basic requirements for construction works are carried out in accordance with ETAG 002 - Part 1.

Basic requirements for construction works	
BWR2	Reaction to fire: class F
BWR3	Dangerous substances: The manufacturer made a declaration of conformity to the Council Directive 76/769/EEC and its amendments
BWR4	The characteristics of the sealants have been established on the basis of test results in accordance to chapter 5.1.4 of ETAG 002-1.
BWR6	Energy economy and heat retention: No evaluation made on the sealant. The thermal conductivity to be taken into account for further calculation on structural sealant glazing kit is $\lambda=0.35 \text{ W/(m}\cdot\text{K)}$ .
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In addition to the specific clauses relating to dangerous substances contained in this European Technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

### 3.3 Safety and accessibility in use (BWR 4)

#### 3.3.1 Properties and characteristics of the sealants

Properties & Characteristics	Sikasil® SG-550 Plus
Design stress in tension $\sigma_{des}$	0.20 MPa
Design stress in dynamic shear $\tau_{des}$	0.13MPa
Design stress in static shear $\tau_{\infty}$	0.013 MPa
Elastic modulus in tension or compression E	1.87 MPa
Elastic modulus in shear tangential to G	0.63 MPa
Elastic modulus in tension at 12,5% elongation $K_{12,5}$	5.60 MPa
Resistance to tearing	1.13
Colour	black
Working time at 23°C 50 % RH	approx. 10 min
Tack free time at 23°C 50 % RH	150 min
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Nevertheless, earlier transportation on work site is possible if the following two conditions are respected (see ETAG Table 10: checks during the production): The tested H-samples give the following result: rupture 90% cohesive and break stress  $\geq 1.0 \text{ MPa}$ .

[dop.sika.com](http://dop.sika.com)

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## CE MARKING TO BE PLACED ON THE LABEL

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Sika Services AG, Zurich, Switzerland
60241468
ETAG 002 Part 1 Edition March 2012 used as EAD
Notified Body 0757
Structural Sealant Glazing Kit: Structural Sealant
For details see accompanying documents
<a href="http://dop.sika.com">dop.sika.com</a>

### ECOLOGY, HEALTH AND SAFETY INFORMATION (REACH)

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w).

### LEGAL NOTE

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 Sikas 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 products 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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**Sika Limited**

Watchmead  
Welwyn Garden City, Herts,  
AL7 1BQ  
UK  
<https://gbr.sika.com/>

**Sika Ireland Ltd**

Sika House, Ballymun  
Industrial Estate  
Dublin, D11 DA2V  
Ireland  
<https://irl.sika.com/>

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