

PRODUCT DATA SHEET

Sikasil®-670 Fire

FIRE RATED SILICONE JOINT SEALANT

DESCRIPTION

Sikasil®-670 Fire is a fire-rated, one-part, moisture curing, low-modulus elastic joint sealant.

USES

Sikasil®-670 Fire is designed for fire rated movement and connection joints on porous and non-porous substrates for interior and exterior applications.

FEATURES

- Up to 4 hours fire resistance according to AS 1530.4 depending on the configuration
- Up to 4 hours fire resistance according to EN 1366-4 depending on the configuration
- 25 LM sealant, maintain up to 25 % lateral movement capability during fire testing
- Movement capability of $\pm 35\%$ (ASTM C 719)
- Good adhesion to many different substrates
- Very good resistance to weathering
- Neutral curing

SUSTAINABILITY

- Contributes towards satisfying Indoor Environmental Quality (EQ) Credit: Low-Emitting Materials under LEED® v4 — 1–3 points
- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)

CERTIFICATES AND TEST REPORTS

- AS 1530.4:2014 and AS 4072.1:2005 (R2016) Fire assessment report
- DoP Sikasil®-670 Fire – EAD 350141-00-1106:2017 – 56464597 – en
- Fire Testing EN 13501-1, Sikasil-670 Fire, CSTB, Report No RA15-0053
- UL Product iQ, XHBN.HW-S-0114 - Joint Systems, System No. HW-S-0114
- CE marking and declaration of performance based on EN 15651-1:2012 Sealants for non-structural use in joints in buildings and pedestrian walkways — Part 1: Sealants for facade elements
- CE marking and declaration of performance based on EN 15651-2:2012 Sealants for non-structural use in joints in buildings and pedestrian walkways — Part 2: Sealants for glazing
- CE marking and declaration of performance based on EN 15651-4:2012 Sealants for non-structural use in joints in buildings and pedestrian walkways — Part 4: Sealants for pedestrian walkways
- Airborn Sound Transmission EN 140-3, Sikasil-670 Fire, UKAS, Report No C/20664/R

PRODUCT INFORMATION

Composition	Neutral cure silicone	
Packaging	300 ml cartridge	12 cartridges per box
	600 ml cylindrical foil pack	12 foil packs per box
Colour	Grey	

Shelf life	Sikasil®-670 Fire has a shelf life of 12 months from the date of production, if it is stored in undamaged, original, sealed packaging, and if the storage conditions are met.	
Storage conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +25 °C. Always refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	
Density	1.35 kg/L	(ISO 1183-1)
Product declaration	EN 15651-1	F EXT-INT CC 25 LM
	EN 15651-2	G CC 25 LM
	EN 15651-4	PW INT CC 25 LM
	ISO 11600	F 25 LM G 25 LM

TECHNICAL INFORMATION

Shore A hardness	20 (after 28 days)	(EN ISO 868)
Secant tensile modulus	<u>100 % elongation at +23 °C</u> 0.30 N/mm ² <u>100 % elongation at -20 °C</u> 0.50 N/mm ²	(ISO 8339)
Tensile strain at break	650 %	(ISO 37)
Elastic recovery	70 %	(EN ISO 7389)
Movement capability	± 25 % ± 35 % ± 25 %	(EN ISO 9047) (ASTM C719) (EN 1366-4)
Reaction to fire	Class B -s2, d0	(EN 13501-1)
Resistance to fire	Refer to the section 'Certificates and test reports' or contact Sika Technical Services for specific information.	
Airborne sound insulation	Rw(C;C _{tr}) = 38(-2;-9)	
Service temperature	Maximum Minimum	+150 °C -40 °C

APPLICATION INFORMATION

Backing material	Use closed cell, polyethylene foam backing rod.	
Sag flow	<u>20 mm profile, +50 °C</u> <u>2 mm</u>	(EN ISO 7390)
Material temperature	Maximum Minimum	+40 °C +5 °C
Ambient air temperature	Maximum Minimum	+40 °C +5 °C
Substrate temperature	Maximum Minimum	+40 °C +5 °C
	The substrate temperature must be +3 °C above dew point temperature and free from frost and ice.	
Skimming time	<u>+23 °C and 50 % r.h.</u> <u>25 minutes</u>	(CQP019-1)
Tooling time	<u>+23 °C and 50 % r.h.</u> <u>20 minutes</u>	(CQP019-2)

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTATION

- Brochure Sika Fire Stopping Solutions
- Safety Data Sheet (SDS)

IMPORTANT CONSIDERATIONS

- Sikasil®-670 Fire cannot be overpainted.
- Colour variations may occur due to exposure to chemicals, high temperatures and/or UV-radiation (especially with the colour shade white). A change in colour is purely of aesthetic and does not adversely affect the technical performance or durability of the product.
- Do not use Sikasil®-670 Fire on natural, cast and reconstituted stone as plasticiser migration may occur.
- Do not use Sikasil®-670 Fire on bituminous substrates, natural rubber, EPDM rubber or on any building materials which might bleed oils, plasticizers or solvents that could degrade the sealant and cause the product to become tacky.
- Do not use Sikasil®-670 Fire to seal joints in and around swimming pools.
- Do not use Sikasil®-670 Fire for joints under water pressure or for permanent water immersion.
- Do not expose Sikasil®-670 Fire to alcohol containing products during curing period.
- Air humidity is required for the product to cure. Do not use the product in a totally confined space.
- Changing ambient conditions can affect product performance. Skin formation and curing time can be significantly delayed by low humidity, low temperature and large joint dimensions.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

IMPORTANT

Poor adhesion due to incorrect priming procedure

Incorrectly defined or uncontrolled priming procedures may lead to a variation in product performance.

1. Test adhesion on project-specific substrates and agree on procedures with all parties before full project application. For more information contact Sika Technical Services.

Poor adhesion due to inadequate surface preparation

Note: Primers are adhesion promoters. Primers cannot replace proper surface preparation and surface cleaning.

1. Do not use primers for improving poorly prepared or poorly cleaned joint surfaces. The substrate must be sound, clean, dry and free of contaminants such as dirt, oil, grease, cement laitance, sealant residues and poorly bonded coatings which could affect adhesion of the primer and sealant. The substrate must be of sufficient strength to withstand the stress induced by the sealant during movement. Use techniques such as wire brushing, grinding, grit blasting or other suitable mechanical methods to remove all weak substrate material. Repair all damaged joint edges with suitable Sika repair products. Remove dust, loose and friable material from all surfaces before applying the sealant. If tested or supported by experience, the Product can be used without primers or activators on many substrates.

APPLICATION

IMPORTANT

Strictly follow installation procedures

Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Masking

It is recommended to use masking tape where neat or exact joint lines are required. Remove the tape within the skin time after finishing.

Joint Backing

After the required substrate preparation, insert a suitable backing rod to the required depth.

Priming

If required, prime the joint surfaces as recommended in substrate preparation. Avoid excessive application of primer causing puddles at the base of the joint.

Application

Prepare the end of the cartridge / foil pack before or after inserting into the sealant gun. Fit the nozzle and cut it to the desired bead size. Extrude Sikasil®-670 Fire into the joint ensuring that it comes into full contact with the sides of the joint and avoiding any air entrapment.

Finishing

As soon as possible after application, sealant must be firmly tooled against the joint sides to ensure adequate adhesion and a smooth finish. Use a compatible tooling agent (e.g. Sika® Tooling Agent N) to smooth the joint surface. Do not use tooling products containing solvents.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® Remover-208 immediately after use. Once cured, hardened material can only be removed mechanically. For cleaning skin use Sika® Cleaner-350H.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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 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.

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Product Data Sheet

Sikasil®-670 Fire

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