

PRODUCT DATA SHEET

Edition 12.2017 (01.2014)
CSC Master Format™ 08 85 00
GLAZING ACCESSORIES

Sikaflex®-552

ASSEMBLY ADHESIVE WITH REDUCED SUBSTRATE PREPARATION

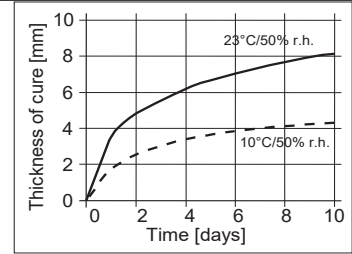
Technical Data	Chemical Base	Silane-terminated Polymer
	Colour (CQP 001-1)	White, Black
	Cure Mechanism	Moisture-curing
	Density (uncured) (CQP 006-4) colour-dependent	1.45 Kg/L approx
	Non-sag Properties	Good
	Application Temperature ambient	5°C to 40°C
	Skin Time ² (CQP 019-1)	40 minutes approx
	Curing Speed (CQP 049-1)	See diagram
	Shrinkage (CQP 014-1)	2% approx
	Shore A Hardness (CQP 023-1/ISO 868)	50 approx
	Tensile Strength (CQP 036-1/ISO 37)	3 N/mm ² approx
	Elongation at Break (CQP 036-1/ISO 37)	300% approx
	Tear Propagation Resistance (CQP 045-1/ISO 34)	10 N/mm approx
	Tensile Lap-Shear Strength (CQP 046-1/ISO 4587)	2 N/mm ² approx
	Glass Transition Temperature (CQP 509-1/ ISO 4663)	-50°C approx
	Volume Resistivity (CQP 079-2/ASTM D 257-99)	3 x 10 ¹¹ Ω cm approx
	Temperature Resistance (CQP 513-1)	90°C 140°C 150°C
		4 hours 1 hour
	Service Temperature Range	-40°C to 90°C
	Shelf Life (Storage below 25°C) (CQP 016-1)	cartridges and sausages - 12 months; drums and pails - 9 months
CQP = Corporate Quality Procedure ² 25°C and 50% Relative Humidity		

Description Sikaflex®-552 is a high-performance, elastic, gap-filling PUR-Hybrid adhesive based on the Sika Silane-Terminated Polymer (STP) technology. Sikaflex®-552 cures on exposure to atmospheric humidity to form a durable elastomer. Sikaflex®-552 is manufactured in accordance with ISO 9001/14001 Quality Assurance System.

- Product Benefits**
- One-component silane-terminated polymer-based technology;
 - Ageing- and weathering-resistant;
 - Bonds well to a wide variety of substrates with practically no need for priming;
 - Capable of withstanding high dynamic stresses;
 - Can be over-painted;
 - Non-corrosive; high electrical resistance;
 - Low odour; low VOC content and solvent-free;
 - Silicone- and PVC-free.

Areas of Application Sikaflex®-552 is suitable for structural joints that will be subjected to dynamic stresses. Suitable substrate materials include metals, particularly aluminium (including anodized components), sheet steel (including phosphated, chromated and zinc-plated components), ceramic materials and plastics. Seek manufacturer's advice before using on plastics that are prone to stress-cracking. This product is suitable for professional experienced users only. Tests with actual substrates under real-life conditions are required to confirm adhesion and material compatibility.

Cure Mechanism Sikaflex®-552 cures by reaction with atmospheric moisture. At low temperatures the water content of the air is lower and the curing reaction proceeds more slowly. See diagram.



Sikaflex®-552 Curing Speed

Chemical Resistance Sikaflex®-552 is **resistant** to fresh water, seawater, and aqueous cleaning solutions; **temporarily resistant** to fuels, mineral oils, vegetable and animal fats and oils; and **not resistant** to organic acids, alcohol, concentrated mineral acids, caustic solutions or solvents. The above information is offered for general guidance only. Please consult Sika Canada Inc.'s Technical Services for advice on specific applications.

Surface Preparation Surfaces must be clean, dry and free from grease, oil and dust. The adhesion of the adhesive can be improved by wiping the joint surfaces with Sika® Aktivator-205. Advice on specific applications is available from the Technical Services department of Sika Industry.

Application Best results are obtained by applying the adhesive with a hand-operated cartridge gun, piston-type compressed-air gun, or pump-operated bulk dispensing equipment. To ensure uniform thickness of adhesive when compressed, we recommend that the adhesive be applied in the form of a triangular bead. For advice on selecting and setting up a suitable pump system, contact the System Engineering department of Sika Industry.

Removal Uncured Sikaflex®-552 may be removed from tools and equipment with Sika® Remover-208 or other suitable solvent. Once cured, the material can only be removed mechanically. Hands and exposed skin should be washed immediately using Sika® Handclean towels or a suitable industrial hand cleaner and water. Do not use solvents!

Overpainting Sikaflex®-552 can be overpainted within the skin formation time. Two-component epoxy paints are usually suitable. Other paints must be tested via preliminary trials under actual manufacturing conditions. Because the elasticity of paints is lower than that of elastomers, cracking of the paint film in the joint area is possible.

Further Information Copies of the following publications are available upon request: *Safety Data Sheet*.

Packaging 400 ml sausages and 600 ml sausages

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 most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

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 shelflife. 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 information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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