BUILDING TRUST

BUILDING PRODUCT INFORMATION SHEET

Sikaflex® MS

High performance multi-purpose modified silicone sealant

DESCRIPTION

Sikaflex® MS is a tough, durable elastomeric joint sealant suitable for use in a wide range of external and internal building applications. It is based upon SMP technology resulting in a unique combination of properties ideally suited to New Zealand climatic conditions. Sikaflex® MS has excellent primerless adhesion to a wide range of common building substrates as indicated below and does not stain concrete, marble and other masonry surfaces.

USES

Sikaflex® MS has been formulated for sealing joints in and around concrete, brick, masonry, pre-cast panels, stone cladding, windows, doors and fibre cement sheeting. Sikaflex® MS bonds well to:

- Concrete and masonry
- Cement plaster systems
- Aluminium, copper, brass and zinc
- Stainless, mild or galvanised steel
- Glass and ceramic tiles
- Glass reinforced plastics
- Fibre reinforced cement sheetings
- Timber, particleboard, hardboard and plywood (refer to Limitations section)
- Butylclad rubber products - chase sealing

FEATURES

- Good primerless* adhesion to most common building materials
- Paintable any time after curing, with water-based paints (compatibility testing recommended prior to full application)
- Will not stain masonry, marble or other surfaces
- Very durable - BRANZ appraised
- Neutral cure
- Highly flexible
- Low odour

* Refer to Priming section.

APPROVALS / CERTIFICATES

BRANZ Appraised, Appraisal No.311 [2019]

PRODUCT INFORMATION

Product identifier	Sikaflex® MS	
Place of manufacture	Overseas	
Composition	Moisture curing SMP	
Packaging	300 ml cartridges / 12 per carton	
	600 ml sausage unipacs / 20 per carton	
Shelf life	Twelve (12) months from date of manufacture if stored correctly as stated.	
Storage conditions	Store in original, unopened packaging in cool, dry conditions protected from direct sunlight and at temperatues between +5°C and +25°C.	
Colour	300 ml cartridges	Grey, White, Black, Bronze, Ivory and Titania
	600 ml sausage unipacs	Grey, White
Density	~ 1.40 kg/l	(ISO 1183-1)

TECHNICAL INFORMATION

Shore A hardness	~ 20 (after 28 days)	(ISO 868)
Movement capability	± 25 %	(ISO 9047)
Service temperature	-40°C to +90°C	
Chemical resistance	Good to dilute acids and alkalis	
Resistance to weathering	Excellent UV resistance	
Joint design	Sikaflex® MS may be applied to joints between 10 and 35 mm wide. To minimise stresses imposed on the joint sealant, all moving joints should be designed to an optimum width to depth ratio of 2:1. This ratio is subject to these overriding minimum sealant depths: ■ 5 mm minimum sealant depth at any point. ■ 5 mm minimum bonding depth against metals, glass and other non-porous surfaces, providing that joint faces are in good condition. ■ 8 mm minimum bonding depth against masonry or other porous surfaces, or any non-porous surfaces where joint faces are in poor condition. ■ Shear joints shall be a minimum joint width to depth ratio of 1:2 up to a maximum of 1:1.	

APPLICATION INFORMATION

APPLICATION

Application temperature: +5°C to +40°C.

Cartridge: Cut the end off threaded stub on cartridge, screw on nozzle and cut nozzle to desired bead size at a 45° angle.

Sausage: Fit Sikaflex® MS sausage into Sika barrel sealant gun and using wire cutters cut the sausage below the metal crimp at one end. Place sausage nozzle over open end of gun and screw on end cap to hold in place. Extrude the sealant firmly into joint to ensure complete contact with joint faces. Smooth finish if necessary with a spatula wetted with a dilute detergent solution.

Curing rate	~3 mm/24 hours (23°C / 50% r.h.)	(CQP 049-2)

MANUFACTURER AND IMPORTER INFORMATION

Manufacturer information	Address	Sika Supply Centre AG Industriestrasse 26 6060, Sarnen Switzerland
Importer information	Address	Sika (NZ) Limited 85-91 Patiki Road Avondale, Auckland 1026 New Zealand
	Phone number	0800 745 269
	Website	https://nzl.sika.com/
	Email address	info@nz.sika.com
	NZBN	9429000018791

BUILDING CODE INFORMATION

BASIS OF PRODUCT DATA

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

Building Code clauses	B2 Durability: Performance clauses B2.3.1 - (b) not less than 15 Years, (c) not less than 5 years E2 External Moisture: Performance clause E2.3.1 and E2.3.2

	E3 Internal Moisture: Performance Clauses E3.3.3, E3.3.4, E3.3.5, E3.3.6 F2 Hazardous Building Materials: Performance clause F2.3.1
Building Code compliance statements	Performance B2.3.1 (b) 15 years and (c) 5 years: This product achieves these durability requirements and will remain serviceable for 15 years, or more, when installed and maintained in accordance with the relevant Sika technical literature. nzl.sika.com. According to Sika's "Service Improvement" records, maintained within its ISO9001:2015 Quality Management System, this product has performed successfully since it was introduced in 2005. Performance E2.3.1, E2.3.2: In accordance with E2/AS1 and E2/AS3 (CCANZ CP 01:2014) this product has been tested and is compliant with the ISO11600:2002 Type F, Class 25LM classification (refer to nzl.sika.com). When used to seal flexible joints, as part of a roofing or wall cladding system, or around external openings, such as windows and doors, the product contributes to meeting the E2.3.1 and E2.3.2 weathertightness requirements. Performance E3.3.3, E3.3.4, E3.3.5, E3.3.6: This product has been tested and is compliant with the ISO11600:2002 Type F, Class 25LM classification. When used to form impervious and easy to clean joints between sheet lining materials and between fixtures and linings, as defined in E3/AS1, it contributes to meeting these impermeability requirements. Performance F2.3.1: This product meets this requirement when used and applied in accordance with Sika's installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Sika Product Technical Data sheet and product Safety Data Sheet nzl.sika.com for further information if required

IMPORTANT CONSIDERATIONS

Sikaflex® MS must not be used as follows:

- With polyethylene, polypropylene, polybutylene, polycarbonate and bitumen
- Where it is subjected to permanent immersion in water
- With structural glazing or floor joints
- With pipes or in other applications where it may be subjected to hydrostatic or pneumatic pressures (other than wind pressure)
- Where continual exposure to aggressive solvents or chemicals will occur
- Where timber or wood based products have been painted
- *Sikaflex® MS will accept waterbased and multi-component coatings. However, as with all elastomeric sealants, coatings may cause undesirable side effects. Movement accommodation ability may be reduced. Dirt pick-up and discolouration may occur in the long term.

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

Joint surfaces must be clean and free from frost and surface water. Remove all dirt, laitance, loose materials and foreign matter.

- Remove all rust, scale and protective lacquers from metal surfaces.
- Non-porous surfaces should be degreased using Sika Thinner C
- In all joints a bond breaker must be used to prevent sealant contact with the back of the joint, and hence allow optimum performance. In shallow joints self adhesive polyethylene tape can be used. Deep joints should incorporate a backing strip such as Sika PEF Rod to support the sealant while also acting as a bond breaker.

PRIMING

Good adhesion can be gained on concrete, timber, metals, ceramics, brick work and most coating surfaces without the use of primers. However, on some surfaces adhesion may be improved by the use of a primer - refer to Sika for advice.

CLEANING OF EQUIPMENT

Clean tools immediately after use with Sika Thinner C.

FURTHER DOCUMENTATION

Safety Data Sheet (SDS)

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

The building product/building product line is not subject to warning or ban under section 26 of the Building Act 2004.

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