Sikaflex®-2K/MS

Two-component Fast Curing Sealant

Technical Product Data (typical values)

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Chemical base		Two-Component MS- Polymer
Cure mechanism		Polycondensation
Density (uncured)		10.85 lb/gal
Application temperature	product	41° to 86°F (5° to 30°C)
Service temperature	permanent	-40° to 194°F (-40° to 90°C)
Tack free time ¹		10 minutes
Curing speed		Approx 4 hours
Shore A-hardness (DIN 53505) (3S)		50
Tensile strength (DIN 53504)		350 psi
Elongation at break (DIN 53504)		200%
Standard Color		Part A-White Part B-Gray
Shelf life (storage below 77°F (25°C))	Pail Drum	12 Months

1) 73°F (23°C) / 50% r.h.

Description

Sikaflex®-2K/MS is a fast curing twocomponent sealant based on MS polymers. After curing the sealant forms a permanent elastic joint.

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

Product Benefits

- Builds strength quickly
- Bonds well to a variety of materials
- Limited pre-treatment
- High strength
- Flexible
- Contains no isocyanates or solvents
- Easy application

Areas of Application

Sikaflex®-2K/MS is used where a strong and durable sealant is required. Suitable for sealing wind power components, such as composite blades.



Cure Mechanism

Sikaflex®-2K/MS cures through chemical reaction between the two components. Higher temperatures accelerate the curing process; lower temperatures slow the curing process.

Chemical Resistance

Good resistance to water, various dilute acids and dilute alkalis, vegetable oil, mineral oil, salt solutions, and kerosene. Not resistant to organic solvents, gasoline, paint thinner, strong acids and strong alkalis. Joint design may affect durability. The long-term above information is offered for general Advice on specific guidance only. applications will be given on request. Contact the Technical Service Department of Sika Industry tsmh@us.sika.com

Method of Application

Mixing

The sealant is applied in a 1:1 ratio using pump dispensing equipment utilizing a static mixer. Contact the Technical Service Department of Sika Industry at tsmh@us.sika.com for advice on the proper static mixer for the application.

Surface preparation

Surfaces should be clean, dry, free of oil and grease, and of sound quality. Preliminary testing for optimal adhesion should be performed. Advice on specific applications is available from the Technical Service Department of Sika Industry at tsmh@us.sika.com

Application

Sikaflex®-2K/MS is applied by means of a pump using a 1:1 ratio. For advice on selecting and setting up a suitable pump system, as well as on the techniques of pump operated application, please contact the System Engineering Department of Sika Industry at 248-577-0020.

Tooling and finishing

Tool smooth with Sika Slick or light soapy water.

Removal

Uncured Sikaflex®-2K/MS may be removed from tools and equipment with Sika®Remover-208 or another suitable solvent. STRICTLY FOLLOW SOLVENT MANUFACTURER'S WARNINGS AND INSTRUCTIONS FOR USE. Once cured, the material can only be removed mechanically. Hands and exposed skin should be washed immediately using a suitable industrial hand cleanser and water. Do not use solvents on skin!

Overpainting

Sikaflex®-2K/MS may be overpainted. The paint must be tested for compatibility by carrying out preliminary trials. Baked enamels should not be applied to Sikaflex®-2K/MS until the sealant has attained full cure. The hardness and film thickness of the paint may impair the elasticity of the sealant and lead to cracking of the paint film.

Limitations

Avoid application of the product below 41°F (5°C) and above 86°F (30°C) as improper surface and mixing properties could result. Avoid contact with excessive amounts of alcohols or alcohol-containing mixtures, as improper levels of curing may result. Not recommended for applications on polyethylene, polypropylene, PTFE, or bituminous substrates.

Component A:

WARNING: IRRITANT. Contains 3-Aminopropyltriethoxysilane (CAS 919-30-2), 3-Aminopropyltrimethoxysilane (CAS 13822-56-5), Bis (1,2,2,6,6-Pentamethyl-4-Piperidyl) Sebacate (CAS 41556-26-7), Vinyltrimethoxysilane (CAS 2768-02-7). Causes skin irritation. May cause eye/respiratory irritation. May be harmful if swallowed. May produce an allergic reaction.

Component B:

WARNING: IRRITANT, Unknown hazards. Causes skin irritation. May cause eye/respiratory irritation. May be harmful if swallowed.

Deliberate misuse by inhalation of vapors may be harmful or fatal. Strictly follow all usage, handling and storage instructions.

HMIS

Component	Α	В
Health	1	1
Flammability	0	0
Reactivity	0	0
Personal Protection	С	С

First Aid Measures

Eyes – Hold eyelids apart and flush thoroughly with water for 15 minutes. Skin – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. Inhalation – Remove to fresh air. Ingestion – Do not induce

vomiting. Dilute with water. Contact physician. In all cases contact a physician immediately if symptoms persist.

Further Information

For more information, consult material safety data sheet and technical datasheet, contact Sika at tsmh@sikacorp.com or visit www.sikausa.com

Copies of the following publications are available on our website www.sikausa.com or by contacting tsmh@sika-corp.com

-Material Safety Data Sheets -Product Data Sheet

In case of emergency call: Chemtrec: 800-424-9300 International: 703-527-3887

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Material Safety Data Sheets containing physical, ecological, toxicological and other safety related data. It is highly recommended to read the actual Material Safety Data Sheet before using the product.

-KEEP OUT OF REACH OF CHILDREN
-NOT FOR INTERNAL CONSUMPTION
-FOR INDUSTRIAL USE ONLY
-KEEP CONTAINER TIGHTLY CLOSED

Packaging Information

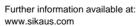
Component	Α	В
Pail	5.28 gal	5.28 gal
Drum	52.4 gal (258 kg)	51.4 gal (253 kg)

Value Basis

All technical data stated on this Product Data Sheet are based on the results of laboratory tests only. Actual measured data in the field may vary due to site specific conditions which are not known to Sika and beyond our control.

Handling and Storage

Avoid direct contact. Wear personal protective equipment (chemical resistant gloves/goggles/clothing) to prevent direct contact with skin and eyes. Use only in well ventilated areas. Open doors and windows during use. Use a properly





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fitted NIOSH respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing and launder before reuse.

Sikaflex®-2K/MS should be stored in a dry place at temperatures between 41°F and 77°F (5°C and 25°C). After opening the packaging, the contents should be protected against atmospheric humidity. Minimum transport temperature is 5°F (-15°C). Advice on specific handling and storage of this product is available from the Technical Service Department of Sika Industry at tsmh@us.sika.com.

Clean Up

Use personal protective equipment (chemical resistant gloves / goggles / clothing). Without direct contact, remove spilled or excess product and place in a suitable sealed container. Dispose of excess product and container in accordance with applicable environmental regulations.

Legal Notes/Disclaimer

All information provided by Sika Corporation ("Sika") concerning Sika products, including but not limited to, any recommendations and advice relating to the application and use of Sika products. is given in good faith based on Sika's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Sika's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Sika's control are such that Sika assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the Sika product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s).

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Limited Material Warranty

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor labor. NO OTHER cost of WARRANTIES IMPLIED OR EXPRESS SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

Further information available at: www.sikaus.com



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