

PRODUCT DATA SHEET

Sikaflex[®]-268

Assembly & glazing adhesive and sealant for rail applications with acceleration option

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base1-component polyurethaneColor (CQP001-1)BlackCure mechanismMoisture-curingDensity (uncured)1.3 kg/l (10.8 lb/gal)Non-sag properties (CQP061-1)Very goodApplication temperature5 - 40 °C (41 - 104 °F)Skin time (CQP019-1)60 minutes AOpen time (CQP526-1)40 minutes ACuring speed (CQP049-1)(see diagram 1)Shrinkage (CQP014-1)1 %Shore A hardness (CQP023-1 / ISO 48-4)55Tensile strength (CQP036-1 / ISO 527)6 MPa (870 psi)
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Elongation at break (CQP036-1 / ISO 527) 500 %
Tear propagation resistance (CQP045-1 / ISO 34) 13 N/mm (75 pli)
Tensile lap-shear strength (CQP046-1 / ISO 4587)4.5 MPa (650 psi)
Service temperature (CQP509-1 / CQP513-1) -50 – 90 °C (-58 – 194 °F)
Shelf life (CQP016-1) unipack 12 months ^B
drum 6 months ^B

CQP = Corporate Quality Procedure

DESCRIPTION

Sikaflex[®]-268 is an adhesive system specifically designed for the rail industry. It is suitable for assembly bonding and glazing applications; its outstanding weathering resistivity and unique resistance to a wide variety of cleaning agents make it an ideal solution for use in exterior joints in the rail industry.

Sikaflex[®]-268 is compatible with Sika's blackprimerless bonding process.

Sikaflex[®]-268 can be accelerated with Sika's Booster and PowerCure systems.

PRODUCT BENEFITS

A) 23 °C (73 °F) / 50 % r. h.

- Resistant to a wide variety of cleaning agents
- Passes EN45545 R1/R7 HL3
- Curing can be accelerated with Sika Booster and Sika PowerCure
- Excellent weathering stability
- Very good processing and tooling characteristics
- Solvent-free

AREAS OF APPLICATION

B) storage below 25 °C (77 °F)

Sikaflex[®]-268 is designed for assembly and direct-glazing applications in rail, the commercial vehicle industry and for the repair market.

It exhibits excellent tooling and application properties. With its superior resistance to a wide range of cleaning agents combined with outstanding weathering resistance, it can be used for exterior joints.

Seek manufacturer's advice and perform tests on original substrates before using Sikaflex[®]-268 on materials prone to stress cracking.

Sikaflex[®]-268 is suitable for experienced professional users only. Test with actual substrates and conditions have to be performed ensuring adhesion and material compatibility.

PRODUCT DATA SHEET Sikaflex®-268 Version 04.01 (04 - 2022), en_US 012001212680001000

CURE MECHANISM

Sikaflex®-268 cures by reaction with atmospheric moisture. At low temperatures the water content of the air is generally lower and the curing reaction proceeds somewhat slower (see diagram 1).

Diagram 1: Curing speed Sikaflex®-268

CHEMICAL RESISTANCE

Sikaflex[®]-268 is generally resistant to fresh water, seawater, diluted acids and diluted caustic solutions; temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils; not resistant to organic acids, glycolic alcohol, concentrated mineral acids and caustic solutions or solvents.

It is resistant to a wide range of rail cleaning agents if used according to the guidelines of the manufacturer. Some rail cleaning agents contain aggressive chemicals such as phosphoric acids which may influence the durability of Sikaflex®-268 significantly. Therefore it is of highest importance to limit the exposure time to a minimum, observe correct dilution of cleaning agent and to perform a thorough rinsing after the cleaning process. Test newly introduced cleaning agents.

The above information is offered for general guidance only. Advice on specific applications will be given on request.

METHOD OF APPLICATION

Surface Preparation

Surfaces must be clean, dry and free from grease, oil and dust. Surface treatment depends on the specific nature of the substrates and is crucial for a long lasting bond. All pretreatment steps must be confirmed by preliminary tests on original substrates considering specific conditions in the assembly process.

Application

Sikaflex®-268 can be processed at temperatures (climate and product) between 5 °C and 40 °C (41 °F and 104 °F) but changes in reactivity and application properties have to be considered. The optimum temperature for substrate and sealant is between 15 °C and 25 °C (59 °F and 77 °F).

Consider the viscosity increase at low temperature. For easy application, condition the adhesive at ambient temperature prior to use. To ensure a uniform thickness of the bondline it is recommend to apply the adhesive in form of a triangular bead (see figure 1).

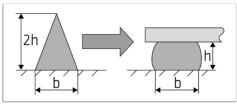


Figure 1: Recommended bead configuration

Sikaflex[®]-268 can be processed with hand, pneumatic or electric driven piston guns as well as pump equipment. The open time is significantly shorter in hot and humid climate. The parts must always be installed within the open time. Never join bonding parts if the adhesive has built a skin.

For advice on selecting and setting up a suitable pump system, contact the System Engineering Department of Sika Industry.

Tooling and finishing

Tooling and finishing must be carried out within the open time of the adhesive. We recommend the use of Sika[®] Slick. Other finishing agents must be tested for suitability and compatibility.

Removal

Uncured Sikaflex[®]-268 can be removed from tools and equipment with Sika[®] Remover-208 or another suitable solvent. Once cured, the material can only be removed mechanically. Hands and exposed skin have to be washed immediately using a suitable industrial hand cleaner and water.

Do not use solvents on skin.

FURTHER INFORMATION

The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Industry.

Copies of the following publications are available on request:

- Safety Data Sheets
- Pre-treatment Chart
- For 1-component polyurethanesGeneral Guidelines
- Bonding and Sealing with 1-component Sikaflex®

PACKAGING INFORMATION

Unipack	600 ml
Drum	195 l

BASIS OF PRODUCT DATA

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

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by contacting SIKA's Technical Service Department via email at tsmh@us.sika.com. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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 the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. NO OTHER WARRANTIES EX-PRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FIT-NESS 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. Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at https://usa.sika.com/en/group/SikaCorp/termsandconditions.html or by calling +1 800-933-7452

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Version 04.01 (04 - 2022), en_US 012001212680001000 Sika Corporation 30800 Stephenson Highway Madison Heights, MI 48071 U.S.A. Telephone: +1 248-577-0020 Email: tsmh@us.sika.com www sikausa.com

