

Sikaflex®-252

Elastic Adhesive

Technical Product Data (typical values)

Chemical base	1-C polyurethane
Color	White, Black
Cure mechanism	Moisture Curing
Density (uncured)	9.9 lb/gal (depends on color)
VOC (EPA method 24)	0.51 lb/gal
Non-sag properties	Very Good
Application temperature	product 50 - 95°F (10 - 35°C)
Tack free time ¹⁾	40 min
Curing speed	(see diagram 1)
Shrinkage	6%
Shore A-hardness (ASTM D 2240)	55
Tensile strength (ASTM D 412)	600 psi
Elongation at break (ASTM D 412)	>300%
Tear propagation resistance (ASTM D 624)	51pli
Tensile-shear strength (ASTM D 1002)	380 psi
Electrical resistance (ASTM D 257-99)	5 x 10 ⁹ Wcm
Service temperature	permanent -40 - 195°F (-40 - 90°C)
Short term	4hours 265°F (130°C)
	1hour 300°F (150°C)
Shelf life (storage below 80°F (25°C))	Cartridges & Unipac 9 months
	Drums & Pails 6 months

¹⁾ 73°F (23°C) / 50% r.h.

Description

Sikaflex®-252 is a 1-component, moisture cured, polyurethane adhesive with extremely high thixotropy and high strength. Sikaflex®-252 is particularly suited to bonding applications in the manufacture of trucks, trailers and equipment. Sikaflex®-252 is manufactured under strict quality control to the highest Sika standards. Sikaflex®-252 is manufactured in accordance with ISO 9001 / 14001 quality assurance system and the responsible care program.

Product Benefits

- Bonds and seals at the same time.
- One part formulation.
- Replaces rivets and mechanical fasteners.
- Very high thixotropy for good gap filling properties.
- Adhesion to a wide range of substrates.
- Short tack free and curing time.
- Non-staining curing process.
- Initial load bearing capacity.
- Sandable and paintable.
- Increases torsional stiffness of final assembly.
- Shock/impact resistant.
- Vibration and sound damping.
- Excellent weather and water resistance.
- USDA approved for incidental food contact.

Areas of Application

- Seek manufacturer's advice before using on plastics that are prone to stress cracking.
- Bonding of floors (plywood, blandex, wood, metal) to subfloor or metallic frame.
- Bonding of all exterior or interior panels, walls, sheets to corners or tubular frames.
- Bonding of FRP roofs (vans, cabins).
- Bonding of trim, molding and all kinds of styling elements.
- Sealing, especially for large dimension joints.

Industry



Cure Mechanism

Sikaflex®-252 cures by reaction with atmospheric moisture. At low temperature the water content of the air is generally lower and the curing reaction proceeds slower (see diagram).

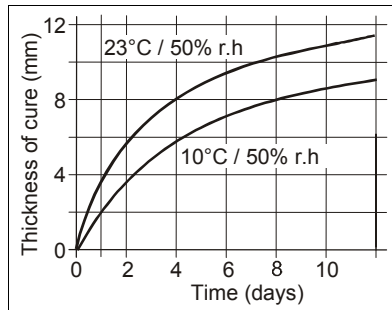


Diagram 1: Curing speed Sikaflex®-252

Chemical Resistance

Sikaflex®-252 is resistant to fresh water, seawater, limewater, sewage effluent, dilute acids and caustic solutions; temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils; not resistant to organic acids, alcohol, concentrated mineral acids and caustic solutions or solvents. The above information is offered for general guidance only. Advice on specific applications is available from the Technical Service Department of Sika Industry at 888-832-7452. The above information is offered for general guidance only.

Method of Application

Surface preparation

Surfaces must be clean, dry, free of water, oil, grease or rust and of sound quality. Remove all loose particles or residues with a jet of compressed air, sandpaper, or hard brush. Clean surface with a solvent, like acetone, if the substrate can stand it. Pretest substrates for adhesion. Cleaners and/or primers may be required to achieve optimal adhesion. Please refer to the Sika Primer Chart for specific application information. Advice on specific applications and primer chart is available from the Technical Service Department of Sika Industry at 888-832-7452.

Application

Cartridges: Pierce cartridge membrane. Affix nozzle.

Unipacs: Place unipac in the application gun and snip off the closure clip. Cut off the tip of the nozzle to joint size. To ensure uniform thickness of adhesive when compressed, we recommend applying the adhesive in the form of a triangular bead (see illustration). Use a hand or powered caulking gun. If Sikaflex®-252 is used as an adhesive, assemble within 15 minutes. Make sure surfaces are frost free. Do not apply at temperatures below 50°F (10°C) or above 95°F (35°C). The optimum temperature for substrate and adhesive is between 60°F (15°C) and 77°F (25°C). 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. Advice on specific applications is available from the Technical Service Department of Sika Industry at 888-832-7452.

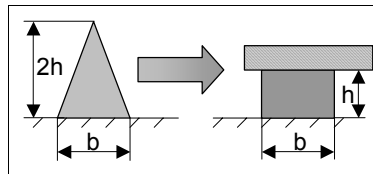


Figure 1: Recommended bead configuration

Tooling and finishing

Tooling and finishing must be carried out within the tack free time of the adhesive. We recommend the use of Sika®-Slick Cutout Lubricant and Tooling Agent. Other finishing agents or lubricants must be tested for suitability / compatibility. Advice on specific applications is available from the Technical Service Department of Sika Industry at 888-832-7452.

Removal

Uncured Sikaflex®-252 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!

Overpainting

Sikaflex®-252 can be overpainted when tack free. The paint and paint process compatibility must be tested before use. Sikaflex®-252 should not be exposed to baking temperatures until it has attained full cure. It should be understood that the hardness and film thickness of the paint may impair the elasticity of the adhesive and lead to cracking of the paint film with time.

Limitations

- Since system is moisture-cured, permit sufficient exposure to air.
- Do not apply over silicones or in the presence of curing silicones.
- Avoid contact with alcohol, and alcohol containing solvents, during cure.
- For best results, use opened cartridges the same day.

WARNING:

IRRITANT, SENSITIZER. Contains Polyisocyanate Prepolymer (Mixture), Xylene (CAS 1330-20-7). Causes eye irritation. May cause skin/respiratory irritation. May cause skin and/or respiratory sensitization after prolonged contact. May be harmful if swallowed. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Headaches and dizziness may result. **Deliberate misuse by inhalation of vapors may be harmful or fatal. Strictly follow all usage, handling and storage instructions.**

Further information available at:
www.sikaindustry.com
SikaFax: 877-663-9727

Sika Corporation
Industry Division
30800 Stephenson Highway
Madison Heights, MI 48071
USA
Tel. 248 577 0020
Fax 248 577 0810



HMIS

Health	*2
Flammability	1
Reactivity	0
Personal Protection	C

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

Copies of the following publications are available on our homepage www.sikaindustry.com or through SikaFax 877-663-9727:

- Material Safety Data Sheets
- Technical Data Sheet
- Sika Primer Chart
- General guidelines for bonding and sealing with Sika products

In case of emergency call:

Chemtrec: 800-424-9300

International: 700-527-3887

Important

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

Cartridge	10.5 fl. oz.
Unipac	20 fl. oz.
Pail	4.5 gal
Drum	55 gal

Handling and Storage

Avoid direct contact. Wear personal protective equipment (chemical resistant goggles/gloves/clothing) to prevent direct contact with skin and eyes. Use only in well ventilated areas. Open doors and windows during use. Use a properly fitted NIOSH respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing and launder before reuse.

Clean Up

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

LIMITED 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 Technical 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 or cost of labor. **NO OTHER 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**

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