

# Sikaflex®-207

## Trowel-On Flooring Adhesive

Technical Product Data (typical values)

Chemical base	1-C polyurethane
Color	Dark Gray
Cure mechanism	Moisture Cure
Density (uncured)	11.0 lbs/gal
VOC (EPA method 24)	0.29 lbs/gal (35 g/l)
Non-sag properties	Good
Application temperature	39-100°F (4-38°C)
Tack free time <sup>1</sup>	90 min
Open Time 1	45 min
Curing speed	(see diagram 1)
Shrinkage	<3%
Shore A-hardness (ASTM D 2240)	35
Tensile strength (ASTM D 412)	125 psi
Tear propagation resistance (ASTM D 624)	70 pli
Elongation at Break (ASTM D 412)	>400%
Tensile lap-shear strength (ASTM D 1002)	125 psi
Glass transition temperature	-49°F (-45°C)
Movement accommodation factor	+100/-50%
Service temperature	permanent -40°F - 194°F (-40°C - 90°C)
Shelf life (storage below 77°F (25°C))	6 months

<sup>1</sup>) 73°F (23°C) / 50% r.h.

### Description

Sikaflex®-207 is a low VOC, one-component urethane adhesive with excellent trowelability and superior tacking properties. It is a moisture cured, non-flowing system. Sikaflex®-207 has excellent adhesion to elastomers, concrete and wood. It remains permanently elastic and is ideal for rubber flooring installation. Sikaflex®-207 is manufactured in accordance with ISO 9001/14001 quality assurance system and the responsible care program. Sikaflex®-207 is available in 5 gallon pails.

### Product Benefits

- Low VOC's (<0.3 lbs. per gallon)
- Trowels easily, even at low temperatures (40°F)
- Fast Tacking properties: holds curled edges down
- Strong, yet remains elastic
- Workable open time (up to 45 minutes)
- Excellent adhesion to elastomers, wood and concrete
- No mixing or priming required

### Areas of Application

Use as an elastic adhesive for bonding many flooring substrates to cement base and wood sub-floors. Advice on specific applications is available from the Technical Service Department of Sika Industry at 888-832-7452.

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.

Industry



## Cure Mechanism

Sikaflex®-207 cures by reaction with atmospheric moisture. At low temperatures, the moisture content of the air is generally lower and the curing reaction proceeds somewhat slower. See diagram.

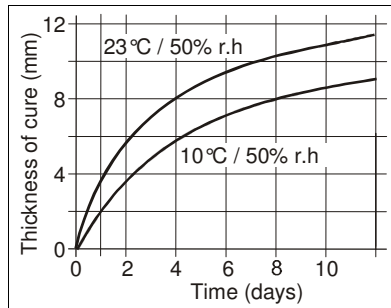


Diagram 1: Curing speed Sikaflex®-207

## Chemical Resistance

Sikaflex®-207 is resistant to fresh water, seawater, limewater, sewage, effluent, dilute acids and dilute caustic solutions; temporary 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 in specific applications will be given on request. Contact the Technical Service Department of Sika at 888-832-7452.

## Method of Application

### Surface preparation

Surface to be bonded must be clean, and free of dirt, water, oils, grease, rust or other foreign materials. The floor must be smooth and structurally sound. Cracks or holes in the sub-flooring should be filled and the filler material fully cured prior to applying Sikaflex®-207. Advice in specific applications will be given on request. Contact the Technical Service Department of Sika at 888-832-7452.

### Application

Sikaflex®-207 possesses excellent troweling characteristics. It is easily applied from its original container with standard flooring application equipment and methods. Since Sikaflex®-207 is a moisture curing material, new pails should not be opened until just prior to use. Apply at temperatures above 40°F and below 100°F.

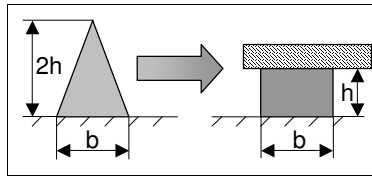


Figure 1: Recommended bead configuration

## Tooling and finishing

Spread Sikaflex®-207 evenly with a 1/16" square-notched trowel. Coverage with this trowel is about 75 ft<sup>2</sup>/gallon. Install flooring onto the adhesive within 30 minutes for best results. All times are recommendations, actual times may vary with temperature and humidity. Press firmly on the flooring, then roll using a 50-100 lb roller to insure proper adhesive contact.

## Removal

Uncured Sikaflex®-207 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 should be washed immediately using a suitable industrial hand cleaner and water. Strictly follow solvent manufacturer's instructions for use and warnings. Do not use solvents on skin!

## Overpainting

Sikaflex®-207 can be overpainted. The paint must be tested for compatibility by carrying out preliminary trials. Baked enamels should not be applied to Sikaflex®-207 until the sealant has attained full cure. It should be understood that the hardness and film thickness of the paint may impair the elasticity of the sealant and lead to cracking of the paint film.

## Limitations

Do not apply on frozen surface, or through standing water, or on a wet surface. Do not apply over silicones or in the presence of curing silicones. Do not apply on surfaces where constant temperatures will exceed 170°F. Avoid exposure to high levels of chlorine (max 5 ppm). Test adhesion prior to large application, due to varying flooring materials. Do not apply over concrete that has not been cured at least 28 days. Do not apply to concrete treated with sealers or curing compounds. Do not apply over surfaces treated with water based acrylates. Contact with alcohol or

alcohol containing solvents will prevent curing.

**WARNING: IRRITANT, SENSITIZER.** Contains Polyisocyanate Prepolymer (Mixture), Methylene Bisphenyl Isocyanate (CAS 101-68-8). Causes eye irritation. May cause skin/respiratory irritation. May cause skin sensitization after prolonged contact. 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

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 with soap and water. **Inhalation** - Remove to fresh air. **Ingestion** - Do not induce vomiting. Dilute with water. Contact physician. **In all cases contact physician immediately if symptoms persist.**

## Further Information

Copies of the following publications are available on our website [www.sikaindustry.com](http://www.sikaindustry.com).  
 - Material Safety Data Sheets  
 - Product Data Sheet  
 - Sika Primer Chart

**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**

Further information available at:  
[www.sikaindustry.com](http://www.sikaindustry.com)

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## Packaging Information

Pails	5 gal
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### Value Basis

All technical data stated in this Product Data Sheet are based on 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

Sikaflex®-207 pails, properly stored in cool, dry conditions, have a shelf life of 6 months. Wear protective equipment (chemically resistant gloves/goggles/clothing) to prevent direct contact with skin and eyes. Use with adequate general and local exhaust ventilation. If ventilation is poor, use properly fitted NIOSH respirator. Wash thoroughly with soap and water after handling. Store in cool dry place away from sunlight at or below 77F (25°C).

### Clean Up

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

### 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 or cost of labor. **NO OTHER WARRANTIES IMPLIED OR EXPRESS SHALL APPLY INCLUDING ANY WARRANTY OF**

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Prior to each use of any Sika product, the user must always read and follow the warnings and

instructions on the product's most current Product Data Sheet, product label and Material Safety Data Sheet which are available at [www.sikaindustry.com](http://www.sikaindustry.com). Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Material Safety Data Sheet prior to product use.

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