SikaBond Construction Adhesive
One part advanced polyurethane, elastomeric sealant/adhesive

Description
SikaBond Construction Adhesive is a one-component, gun-grade, adhesive and sealing compound of permanent elasticity. This dual-purpose material is based on a special moisture-cured polyurethane with an accelerated curing time.

Where to Use
As an elastic adhesive for:
- Paver caps, masonry veneer and Faux stone.
- Cover plates, gaskets and coverings.
- Acoustic ceiling tiles.
- Floor moldings and door sills.
- Light weight construction materials.
- Wood, metal, or plastic window and door frames.
- Roof tiles.

As an elastic joint sealer for:
- Air ducts and high vacuum systems.
- Containers, tanks, and silos.
- Gaskets in openings in walls or floors for ducts, piling, etc.
- Reservoirs or water retaining structures.
- Aluminum fabrication.
- Bolted lap joints.

Advantages
- Excellent adhesion on all cement-based materials, brick, ceramics, glass, metals, wood, epoxy, polyester, acrylic resin, and plastics.
- Fast cure rate.
- Good weathering and water resistance.
- Non-corrosive.
- Can be painted over with water, oil, and rubber-based paints. (Preliminary tests recommended).
- High durability.

Coverage
10.1 fl. oz. cartridge seals 12.2 lineal ft. of 1/2 x 1/4 in. joint.

Packaging
Disposable 10.1 fl. oz., moisture-proof composite cartridges, 12/case.

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shelf Life</td>
<td>9 months in unopened container.</td>
</tr>
<tr>
<td>Storage Conditions</td>
<td>Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using.</td>
</tr>
<tr>
<td>Color</td>
<td>Gray</td>
</tr>
<tr>
<td>Application Temperature</td>
<td>40° to 100°F. Sealant should be installed when joint is at midrange of its anticipated movement.</td>
</tr>
<tr>
<td>Service Range</td>
<td>-40° to 170° F</td>
</tr>
<tr>
<td>Curing Rate</td>
<td>Tack-free Time (TT-S-00230C) 1 to 2 hours depending on climate. Final Cure 5 to 8 days</td>
</tr>
<tr>
<td>Recovery</td>
<td>ASTM C-719 &gt;90%</td>
</tr>
<tr>
<td>Shore A Hardness (ASTM D-2240)</td>
<td>40-45</td>
</tr>
<tr>
<td>Tensile Properties (ASTM D-412)</td>
<td>Tensile Stress 225 psi</td>
</tr>
<tr>
<td>Elongation at Break</td>
<td>600%</td>
</tr>
<tr>
<td>Lap-Shear Strength (ASTM D-1002) modified, glass substrate</td>
<td>73°F/50% RH 165 psi</td>
</tr>
<tr>
<td>Weathering Resistance</td>
<td>Excellent</td>
</tr>
<tr>
<td>Chemical Resistance</td>
<td>Good resistance to water, weak acids, weak alkalis, sewerage, mineral oils, vegetable oils, fats, fuels,. (Not resistant to organic solvents, paint thinner, strong acids, strong alkalis). Consult Technical Service for specific data.</td>
</tr>
</tbody>
</table>
How to Use

Surface Preparation
Clean all surfaces. Joint walls must be sound, clean, dry, frost-free, and free of oil and grease. Curing compound residues and any other foreign matter must be thoroughly removed.

Priming
Priming is not usually necessary for anodized aluminum, steel, non-absorbent materials such as glass, ceramics, stoneware and tiles. Most substrates only require priming if testing indicates a need or where sealant will be subjected to water immersion after cure. Consult Technical Service for additional information on priming.

Application
Recommended application temperatures: 40°-100°F. For cold weather application, condition material to 65°-75°F before using. Place nozzle of gun into bottom of the joint and fill entire joint. Keep the nozzle in the sealant; continue on with a steady flow of sealant preceding the nozzle to avoid air entrapment. Avoid overlapping of sealant to eliminate entrapment of air. Tool as required. Joint dimension should allow for 1/4 inch minimum and 1/2 inch maximum thickness for sealant. Proper design is 2:1 width to depth ratio.

Storage
Store in dry warehouse conditions between 40°F and 80°F. Shelf life under these conditions is 9 months.

Limitations
- Allow 3-day cure at standard conditions when using Sikabond Construction Adhesive in total water immersion situations and prior to painting.
- Avoid exposure to high levels of chlorine. (Maximum level is 5ppm).
- Maximum depth of sealant must not exceed 1/2 in.; minimum depth is 1/4 in.
- Maximum expansion and contraction should not exceed 12.5% of average joint width.
- Avoid contact with alcohol and other solvent cleaners during cure.
- Do not apply when moisture-vapor-temperature condition exists from the substrate as this can cause bubbling within the sealant.
- Use opened cartridges the same day.
- When applying sealant, avoid air-entrapment.
- Since system is moisture-cured, permit sufficient exposure to air.
- White color tends to yellow slightly when exposed to ultraviolet rays.
- The ultimate performance of Sikabond Construction Adhesive depends on proper application, good design and proper preparation of joint surfaces.
- Not for use in expansion joints.
- Heavier substrates may require additional support during the cure period.

Caution

Combustible
Keep away from open flames and high heat. Contains xylene; avoid breathing vapors. Use with adequate ventilation.

Irritant; Sensitizer
Contains polyisocyanate prepolymer, xylene. Avoid breathing vapors. Use with adequate ventilation. May cause skin/eye/respiratory irritation. May cause skin and/or respiratory sensitization after prolonged or repeated contact. Avoid contact. Overexposure to xylene may cause headaches, dizziness or other CNS effects. Use only with adequate ventilation. Use of safety goggles and chemical resistant gloves is recommended. If PELs are exceeded, use an appropriate, properly fitted NIOSH approved respirator. Remove contaminated clothing.

First Aid
In case of skin contact, wash immediately and thoroughly with soap and water. If symptoms persist, consult physician. For eye contact, flush immediately with plenty of water for at least 15 minutes; contact physician. For respiratory problems, remove person to fresh air; if symptoms persist, contact a physician. In case of ingestion, dilute with water and consult physician. Remove contaminated clothing.

Clean Up
In case of spills or leaks, wear suitable protective equipment, contain spill, collect with absorbent material, and transfer to suitable container. Ventilate area. Avoid contact. Dispose of in accordance with current, applicable local, state, and federal regulations.

In case of emergency, call CHEMTREC 1-800-424-9300

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

Keep container tightly closed. KEEP OUT OF REACH OF CHILDREN. Not for internal consumption. FOR INDUSTRIAL USE ONLY. 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.

Sika is a registered trademark. Made in USA. Printed in USA.
1. Product And Company Identification

**Supplier**
Sika Corporation
201 Polito Ave
Lyndhurst, NJ 07071

**Company Contact:** EHS Department
**Telephone Number:** 201-933-8800
**FAX Number:** 201-933-9379
**Web Site:** www.sikausa.com

**Manufacturer**
Sika Corporation
201 Polito Ave
Lyndhurst, NJ 07071

**Company Contact:** EHS Department
**Telephone Number:** 201-933-8800
**FAX Number:** 201-933-9379
**Web Site:** www.sikausa.com

**Supplier Emergency Contacts & Phone Number**
CHEMTREC: 800-424-9300
INTERNATIONAL: 703-527-3887

**Manufacturer Emergency Contacts & Phone Number**
CHEMTREC: 800-424-9300
INTERNATIONAL: 703-527-3887

**Issue Date:** 10/19/2005

**Product Name:** Sikabond® Construction Adhesive

**CAS Number:** Not Established

**Chemical Family:** Polyurethane

**MSDS Number:** 3679

**Product Code:** C481522

2. Composition/Information On Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS Number</th>
<th>Percent Of Total Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYISOCYANATE PREPOLYMER</td>
<td>Trade Secret</td>
<td></td>
</tr>
<tr>
<td>XYLENE (MIXED ISOMERS)</td>
<td>1330-20-7</td>
<td>&lt;</td>
</tr>
</tbody>
</table>

3. Hazards Identification

**Eye Hazards**
May cause eye irritation.

**Skin Hazards**
May cause skin irritation. Prolonged and/or repeated skin contact may cause an allergic reaction/sensitization.

**Ingestion Hazards**
May be harmful if swallowed.

**Inhalation Hazards**
May cause nose, throat, and lung irritation. May cause an allergic respiratory reaction / sensitization after prolonged or repeated contact. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney, and Central Nervous System damage. Headaches and dizziness may result.
4. First Aid Measures

**Eye**
In case of contact, hold eyelids apart and immediately flush eyes with plenty of tepid water for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

**Skin**
In case of contact, immediately flush skin with soap and plenty of tepid water for at least 15 minutes. Get medical attention immediately if irritation (redness, rash, blistering) develops and persists.

**Ingestion**
If swallowed, do not induce vomiting unless directed to do so by medical personnel. If victim is fully conscious, give one or two cups of water or milk to drink. Seek medical attention immediately.

**Inhalation**
Remove to fresh air. If not breathing, give artificial respiration.

5. Fire Fighting Measures

- **Flash Point:** N/A °F
- **Flash Point Method:** Solid per ASTM D4359
- **Autoignition Point:** N/AV °F
- **Lower Explosive Limit:** N/AV
- **Upper Explosive Limit:** N/AV

**Fire And Explosion Hazards**
During a fire, irritating and/or toxic gases and aerosols from the decomposition/combustion products may be present.

**Extinguishing Media**
In case of fire, use water spray (fog) foam, dry chemical, or CO2.

**Fire Fighting Instructions**
Firefighters should wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

Avoid release to the environment. Use appropriate Personal Protective Equipment (PPE). Contain spill and collect with absorbent material and transfer into suitable containers. Do not flush to sewer or allow to enter waterways. Ventilate enclosed area.

7. Handling And Storage

**Handling And Storage Precautions**
Keep out of reach of children. Not for internal consumption.

**Handling Precautions**
Condition to 65 - 85F before using. If closed container is exposed to heat, pressure can build up. If moisture enters container, pressure may build up due to reaction.

**Storage Precautions**
Store at 40 - 95F. Store in cool dry area in tightly closed containers, away from sparks and open flames.

**Work/Hygienic Practices**
Wash thoroughly with soap and water after handling.

8. Exposure Controls/Personal Protection

**Engineering Controls**
Use of a system of local and/or general exhaust is recommended to keep employee below applicable exposure limits. Refer to the current edition of "Industrial Ventilation: A Manual of Recommended Practice" published by
8. Exposure Controls/Personal Protection - Continued

**Engineering Controls - Continued**
the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

**Eye/Face Protection**
Safety glasses with side shields or goggles.

**Skin Protection**
Chemical-resistant gloves. Lab coat or other work clothing to prevent skin exposure (Long sleeve shirt and long pants). Launder before reuse.

**Respiratory Protection**
A respirator protection program that meets 29 CFR 1910.134 requirement must be followed whenever workplace conditions warrant a respirator's use. In areas where the Permissible Exposure Limits are exceeded, use a properly fitted NIOSH-approved respirator.

**Other/General Protection**
Wash thoroughly after handling.

### Ingredient(s) - Exposure Limits

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYISOCYANATE PREPOLYMER</td>
<td>ACGIH TLV: NOT ESTABLISHED</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL: NOT ESTABLISHED</td>
</tr>
<tr>
<td></td>
<td>IARC: NO</td>
</tr>
<tr>
<td></td>
<td>NTP: NO</td>
</tr>
<tr>
<td>XYLENE (MIXED ISOMERS)</td>
<td>ACGIH TLV-STEL 150 ppm</td>
</tr>
<tr>
<td></td>
<td>ACGIH TLV-TWA 100 ppm</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL-TWA 100 ppm</td>
</tr>
</tbody>
</table>

9. Physical And Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Paste (solid)</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Aromatic Odor</td>
</tr>
<tr>
<td><strong>Chemical Type</strong></td>
<td>Mixture</td>
</tr>
<tr>
<td><strong>Physical State</strong></td>
<td>Solid</td>
</tr>
<tr>
<td><strong>Melting Point</strong></td>
<td>N/AV °F</td>
</tr>
<tr>
<td><strong>Boiling Point</strong></td>
<td>N/AV °F</td>
</tr>
<tr>
<td><strong>Specific Gravity</strong></td>
<td>1.27</td>
</tr>
<tr>
<td><strong>Percent VOCs</strong></td>
<td>3.8</td>
</tr>
<tr>
<td><strong>Packing Density</strong></td>
<td>10.6 pounds/gallon</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>N/AV</td>
</tr>
<tr>
<td><strong>Vapor Density</strong></td>
<td>&gt; AIR</td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td>N/AV</td>
</tr>
<tr>
<td><strong>Evaporation Rate</strong></td>
<td>Slower than ether</td>
</tr>
<tr>
<td><strong>VOC Content</strong></td>
<td>48.3 grams / liter</td>
</tr>
</tbody>
</table>

10. Stability And Reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stability</strong></td>
<td>Stable</td>
</tr>
<tr>
<td><strong>Hazardous Polymerization</strong></td>
<td>Will not occur</td>
</tr>
</tbody>
</table>
10. Stability And Reactivity - Continued

<table>
<thead>
<tr>
<th>Conditions To Avoid (Stability)</th>
<th>Incompatible Materials</th>
<th>Hazardous Decomposition Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Flame, Heat</td>
<td>Water, Alcohols and Amines</td>
<td>CO, CO2, NOx, Smoke, Fumes</td>
</tr>
</tbody>
</table>

11. Toxicological Information
No Data Available...

12. Ecological Information
No Data Available...

13. Disposal Considerations
Dispose in accordance with applicable federal, state and local government regulations. Waste generators must determine whether a discarded material is classified as a hazardous waste. USEPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. Transport Information
Proper Shipping Name
Not regulated by the USDOT.

15. Regulatory Information

U.S. Regulatory Information
All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SARA Hazard Classes
Acute Health Hazard
Chronic Health Hazard

SARA Title III - Section 313 Supplier Notification
This product contains the following toxic chemicals that are subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372.
XYLENE (MIXED ISOMERS) (1330-20-7) <4 %
This information must be included on all MSDSs that are copied and distributed for this material.

Ingredient(s) - U.S. Regulatory Information
XYLENE (MIXED ISOMERS)
SARA Title III - Section 313 Form "R"/TRI Reportable Chemical
SARA - Acute Health Hazard
SARA - Chronic Health Hazard
SARA - Fire Hazard

Ingredient(s) - State Regulations
XYLENE (MIXED ISOMERS)
New Jersey - Workplace Hazard
New Jersey - Environmental Hazard
### 15. Regulatory Information - Continued

**Ingredient(s) - State Regulations - Continued**

- New Jersey - Special Hazard
- Pennsylvania - Workplace Hazard
- Pennsylvania - Environmental Hazard
- Massachusetts - Hazardous Substance
- New York City - Hazardous Substance

### 16. Other Information

**HMIS Rating**
- Health: *2
- Fire: 1
- Reactivity: 0
- PPE: C

**Revision/Preparer Information**
- MSDS Preparer: EHS Department
- MSDS Preparer Phone Number: 201 933 - 8800
- This MSDS Supercedes A Previous MSDS Dated: 03/09/2005

**Disclaimer**

The data in this Material Safety Data Sheet relates only to the specific material herein and does not relate to use in combination with any other material or in any process. The information set forth herein is based on technical data that Sika believes to be reliable as of the date hereof. Since conditions of use are outside our control, we make no warranties, express or implied and assume no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.

SIKA CORPORATION