

## PRODUCT DATA SHEET

# SikaWall®-3000 Rapid Bond

One component, fast curing polyurethane foam adhesive.

### PRODUCT DESCRIPTION

A one-component, low-expansion polyurethane spray foam adhesive for rigid insulation boards specifically designed for use in Sika Facades Exterior Insulation & Finish System (EIFS). This fast set adhesive allows for EPS and GPS rasping one hour after insulation board installation.

### USES

For use to adhere EPS and GPS rigid insulation boards in approved Sika Facades EIFS and for filling gaps between insulation boards.

Note: For above-grade vertical walls. Not for use on overhead horizontal conditions.

### CHARACTERISTICS / ADVANTAGES

- No mixing required, a ready-to-use one-component product.
- Cures in one hour or less, shortens system application time.
- Two convenient package sizes, reduce waste and ease application

### PRODUCT INFORMATION

#### Packaging

- Canister 24 oz (680 g) -12 per carton
- Cylinder 23 lbs (10.43 kg) -1 per carton

#### Shelf Life

- One (1) year when unopened and stored as directed.
- Use within 30 days of opening the cylinder valve and within 12-month shelf life.

#### Storage Conditions

- Store upright in a dry area at temperatures between 45-95°F (7-35°C). Excessive heat can cause premature aging of components resulting in a shorter shelf-life.
- Do not allow material to freeze.

#### In Use Cylinder Storage:

- Insert a nail into the end of nozzle to restrict moisture from entering. For longer storage up to 30 days, remove the nozzle and spray cleaning solvent through nozzle and around the ball valve.
- Do not disconnect the dispensing hose/gun or remove hoses from cylinders. Do not flush/clean hoses with air, water, or solvent. Removing and/or cleaning the hose will compromise the foam. Leave the dispensing unit hose

pressurized. Wrap the hose end with plastic.

**Volatile organic compound (VOC) content** <5 g/l with exempt solvent

## TECHNICAL INFORMATION

Compressive Strength	Method	Criteria	Results
	ASTM D1621	Report Value	8.6 psi (59.29 kPa) Parallel
Tensile Strength	ASTM D1623	Report Value	25 psi (172.37 kPa)
Tensile Adhesion Strength	ASTM C-297	> 15 psi (103 kPa)	> 15 psi (103 kPa)
Reaction to Fire	ASTM E-84/UL 723	< 25 Flame Spread Index < 450 Smoke Developed	0 50

## APPLICATION INFORMATION

<b>Coverage</b>	Insulation board coverage based on 3/4" (19 mm) bead size: Canister: 100-110 ft <sup>2</sup> (9.7-10 m <sup>2</sup> ) Cylinder: 970-1,000 ft <sup>2</sup> (90-93 m <sup>2</sup> ) <small>Coverage varies with surface conditions, application technique and ribbon size.</small>
<b>Ambient Air Temperature</b>	<ul style="list-style-type: none"><li>Adhesive product temperature should be 65°F-95°F (18°C-35°C), temperatures outside of this range may affect flow rate and cure times.</li><li>Do not apply in ambient temperature below 50°F (10°C) or surface temperature above 115°F (46°C).</li></ul>
<b>Open Time</b>	The time between placing adhesive ribbons onto the insulation board and the time the ribbons skin over is approximately 1-5 minutes.
<b>Cure Time</b>	<ul style="list-style-type: none"><li>1 hour, under average conditions of 70°F (21°C) and 50% Relative Humidity</li><li>Cooler temperatures and lower humidity will extend the cure time.</li><li>Protect adhesive from rain or other precipitation and temperatures less than 50°F (10°C) for a minimum of 1 hour or until dry.</li></ul>

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

### SURFACE PREPARATION

Surfaces shall be clean, free of dirt, oil, grease, paint, concrete sealers, form releasing agents or curing compounds, and are structurally sound.

- Verify substrate is flat, free of fins or planar irregularities greater than 1/4" in 10' (6.4 mm in 3 m). Do not apply adhesive in excess of 3/4" in an effort to offset irregularities in the substrates.
- Apply adhesive to a sample insulation board to establish the flow/gun control valve setting and ribbon application rate required to produce properly sized adhesive ribbons. Ribbons should be approximately

5/8"-3/4" (6-19mm) in maximum width.

- Concrete: allow to cure a minimum of 28 days prior to application of adhesive.
- Unit Masonry: allow to cure prior to application of adhesive
- Sika Facades Air/Water-Resistive Barrier: allow to dry a minimum of 24 hours or until dry.

### MIXING AND DISPENSING

#### Canister

- Shake can vigorously for 30-60 seconds before initial use. Invert can and screw foam dispensing gun firmly into place. Screw until finger-tight do not over tighten.
- To prime, open flow control knob and press trigger to dispense foam into an appropriate waste receptacle. Adjust flow control knob to achieve desired steady flow and foam bead size of 5/8"-3/4".
- When changing cans, tighten the flow control knob before removing the empty can. Use a solvent cleaner to clean the gun as needed. Do not use a sharp object

to clean the gun.

### Cylinder

1. Remove cylinder, hose/gun, nozzles and wrench from carton. Always keep cylinder upright.
2. Shake cylinder vigorously from side to side 15-20 times prior to initial use, at the start of each day and after prolonged work interruptions.
3. Hand tighten the hose to cylinder and nozzle to gun. To attach nozzle, line up the nozzle with the slots on the gun, and twist 1/4 turn clockwise to secure. Tighten hose connections with the wrench. Work carefully, do not over tighten or cross thread connections.
4. Confirm the gun valve is tightly closed. Open cylinder valve and confirm hose connections are leak free.
5. To prime, open gun control valve and press trigger to dispense foam into an appropriate waste receptacle. Adjust gun control valve to achieve desired steady flow and foam bead size.
6. Reuse: Shake cylinder vigorously from side to side 15-20 times. Make sure the nozzle is completely cleared of any cured adhesive. With cylinder in upright position, open the cylinder valve. Cylinder is ready for use.
7. Replacement Nozzle: remove nozzle by simply twisting a 1/4 counterclockwise and pulling. To attach, line up the nozzle with the slots on the dispensing unit and twist 1/4 turn clockwise to secure.

### **APPLICATION**

Apply adhesive to a sample insulation board to establish the flow/gun control valve setting and ribbon application rate required to produce properly sized adhesive ribbons. Ribbons should be approximately 5/8"-3/4" (6-19mm) in maximum width.

Note: Terminations must be pre-wrapped with Sika Facades base coat and SikaWall Detail Back Wrap Mesh.

1. Starter courses: Provide temporary support for the initial course of insulation board to hold it in place as subsequent courses are added above the boards.
2. Apply a ribbon to each end of the (2' x4') insulation board, parallel to the short dimension of the board. Position the end ribbons approximately 3/4" (19mm) from the end of the insulation board.
3. Apply six (6) more ribbons for a total of 8 to each 2' x 4' (0.6m x 1.2m) insulation board, evenly spaced nominally 5"-6" (12.7cm-15cm) apart between the end ribbons. Start and stop adhesive ribbons approximately 1/2" (12.7mm) from the edge of the board.
4. Apply insulation board to prepared substrate when adhesive ribbons have tack and before the surface of ribbons begin to form a skin. Install the board using LIGHT but firm pressure, taking care not to over-compress the adhesive ribbons.
  - NOTE: The time between placing adhesive ribbons onto the insulation board, and the time the ribbons skin over is approximately 1-5 minutes.
5. Be precise with the initial placement of insulation boards. The adhesive sets rapidly and provides limited opportunity to adjust insulation board placement.
6. Install insulation boards in a running bond pattern with staggered joints, tightly abutted. Slight post-expansion

- of the adhesive will occur which can cause unevenness at board joints. Use a straight edge to lightly press boards to keep board joints flush. Board joint gaps up to 1/4" (6.4mm) can be filled with SikaWall Rapid Bond, ensure any excess foam is rasped flush.
7. For partial boards, use the same procedure as full boards with ribbons of adhesive, spaced not more than 5" to 6" (12.7-15.3cm ) apart.
8. Rasp insulation boards after full cure of adhesive, typically after one hour in nominal conditions 70°F (21°C) and 50% relative humidity. Cooler temperatures and lower humidity will extend cure time. Do not rasp insulation boards until full cure has occurred.

### **CLEAN UP**

- Uncured adhesive may be removed with a cleaning solvent such as acetone.
- Cured foam can be removed mechanically. Always use proper PPE during cleaning and disposal procedures.

### **LIMITATIONS**

1. Not for use with mineral (stone) wool insulations.
2. Not for use with insulated masonry and stone veneer systems.
3. Use only for above-grade vertical walls. Not for use on overhead horizontal conditions.
4. Do not moist cure.
5. Not for use to fill sheathing joints.
6. Bead size exceeding 0.75" (19 mm) may affect EPS board alignment requiring additional rasping.

### **DISPOSAL**

Before disposing of containers, relieve container of any remaining foam and pressure. Allow the dispensed product to fully cure before disposing. Never discard in a liquid state. This material must be disposed of in accordance with all local, regional, national, and international regulations.

Consult Sika Facades Technical Services Department at +1 (800) 226-2424 for specific recommendations concerning all other applications.

### **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.

### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Wear proper PPE, including protective glasses with side shields or goggles, nitrile gloves, and clothing that protects against dermal exposure. Read all instructions and safety information prior to use. Consult the Safety Data Sheet (SDS) for further information.

## LEGAL DISCLAIMER

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

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](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. 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.

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