

## PRODUCT DATA SHEET

# R-SEAL 2000 LF

## LIQUID FLASHING FOR THE BUILDING ENVELOPE

### PRODUCT DESCRIPTION

R-SEAL 2000 LF is a durable one-component, STPE technology, non-sag, flexible, flashing and water barrier sealant designed for primerless adhesion to the most challenging substrates found in the building envelope. R-SEAL 2000 LF is ABAA evaluated and listed for use in the building envelope.

### COMPLIANCES

ASTM C920, Type S, Grade NS, Class 12.5, use NT, G, A, O, M.

### APPLICATIONS

- ECOMAXci® FR Air Barrier insulation joints
- All connection details specified for the building envelope to achieve a water tight building
- Between flanged windows and water barriers
- Termination and transition seals where flashing meets the building envelope
- Window and door perimeters where movement is applicable
- Rough openings
- Connections between the building envelope wrap and roofing systems
- Sealing around penetrations in water/air barrier and flashing materials
- Self adhered air and vapor barrier field-cut edges, T-joints, reverse laps and terminations

### SUITABLE SUBSTRATES

- Peel & stick window flashing and wraps
  - Nonwoven spunbound window flashing and wraps
  - Polyethylene, polypropylene and polyolefin air and water barriers
  - PVC, steel, metal, aluminum and glass
  - Asphaltic/bituminous surfaces that would normally bleed with polyurethane sealants
- NOTE:** A pull test is always recommended on a per project basis

### PRODUCT BENEFITS

- **Resilient:** Excellent UV and weather resistance
- **Versatile:** Unprimed adhesion to challenging, low surface tension surfaces such as polyethylene, polypropylene and polyolefins
- **Compatible:** Suitable for use with bituminous and asphalt based materials – will not cause bleeding
- **Airtight:** Approved for use within the ECOMAXci® Wall Solution, passed ASTM E2357
- **Watertight:** Approved for use within the ECOMAXci® Wall Solution, passed ASTM E331
- **Workability:** effortless to spread/trowel allowing for ease of application

### PRODUCT DATA

PACKAGE/UNIT		SAUSAGE (20 FL OZ)	CASE (20 SAUSAGES)	PAIL (2 GALLONS)
VOLUME PER PACKAGE/UNIT (FL OZ)		20	400	256
THICKNESS (MILS)	WIDTH (IN)	THEORETICAL YIELD (LF) <sup>1</sup>		
30	1	100	2005	1283
30	4	25	501	320
50	1	60	1203	770
50	2	30	601	385
50	3	20	401	256
50	4	15	300	192
50	5	12	240	154
50	6	10	200	128
50	7	8.5	171	110
50	8	7.5	150	96

<sup>1</sup> Theoretical yields do not account for fillets at corners, membrane intersections, counterflashing, scrap, installer proficiency, etc. It is customary to add 10-25% or more depending on the project.

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## TYPICAL PHYSICAL PROPERTIES

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

Shelf Life	12 months in unopened containers
Storage Temperatures	Store dry at 40°- 95°F (5°- 35°C)
Conditioning Temperatures	Condition material to 55°- 75°F (13°- 24°C) before using
Application Temperatures	-20° to 104°F
Service Temperatures	-40° to 170°F
Curing Rate (73°F and 50% RH)	<ul style="list-style-type: none"><li>• Skin Formation Time: 60-90 minutes</li><li>• Cure Time, 30-50mil application: 6 hours</li><li>• Cure Time, depth 1/6": 24 hours</li></ul>
Volatile Organic Compounds (VOC)	<ul style="list-style-type: none"><li>• 0.9 wt %</li></ul>

**NOTE:** Lower temperatures will reduce the ability to tool, increase skin over time and increase curing time.

## INSTALLATION - ECOMAXci® WALL SOLUTION

For use within the Rmax® ECOMAXci® Wall Solution, refer to the Rmax® ECOMAXci® Wall Solution Installation Instructions. For other applications, follow the instructions below.

### INSTALLATION

**Surface Preparation** – All surfaces must be sound, clean, dry, and free of frost, oil and grease. Curing compound residues and any other foreign matter must be thoroughly removed. Priming is not usually necessary for anodized aluminum, steel, non-absorbent materials such as glass, ceramics, stoneware and tiles. Substrates can vary in makeup; therefore, a pull test is always recommended on a per project basis. Consult Technical Service at 972-850-3604 or rmax.technical@us.sika.com for additional information on priming.

**Application** – When used to seal lap joints and transitions between two flashing or other materials, apply R-SEAL 2000 LF such that there is 1/4" - 3/8" of sealant on each side of the lap joint and minimum 1/8" sealant depth. Tool sealant with uniform pressure to ensure proper wetting to all surfaces requiring sealant.

**Tooling and Finishing** – tool as required with a dry putty knife, trowel or spatula to ensure full contact with joint walls and remove air entrapment. Joint dimension should allow for 1/4" minimum and 1/2" maximum thickness for sealant. Proper design is 2:1 width to depth ratio. Closed-cell backer rod is recommended to control sealant depth.

**Removal** – 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.

### LIMITATIONS

- Avoid contact with alcohol and other solvent cleaners during cure.
- Do not apply when moisture-vapor-transmission condition exists from the substrate as this can cause bubbling within the sealant.
- Use opened sausages the same day.
- When applying sealant, avoid air-entrapment.
- Since system is moisture-cured, permit sufficient exposure to air.
- The ultimate performance of R-SEAL 2000 LF depends on proper application, good design and proper surface preparation.
- Not for use in expansion joints.

### WARNING

Prior to each use of any Rmax sealant product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet. All documents are located at [www.rmax.com](http://www.rmax.com). For technical support, email [rmax.technical@us.sika.com](mailto:rmax.technical@us.sika.com). Nothing contained in any Rmax® materials relieves the user of the obligation to read and follow the warnings and instructions for each Rmax product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use. KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

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

### WARRANTY

Rmax 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 express or implied shall apply including any warranty of merchantability or fitness for a particular purpose. Rmax® shall not be liable under any legal theory for special or consequential damages. Rmax® 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 Rmax® products are subject to Rmax terms and conditions of sales available at [www.rmax.com](http://www.rmax.com).

## Rmax®, A Business Unit of Sika Corporation

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### Manufacturing Plant Locations

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972-387-4500	864-297-1382	775-575-4849

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