

# PRODUCT DATA SHEET

## Bio Fireshield™ LECTRA-STOP™

Classified under Wall Opening Protective Material as found in UL's Fire Resistance Directory

January 2011



Charter Member

International FireStop Council

### 1. Product Description

Bio Fireshield™ LECTRA-STOP™ is a one component fire rated pad for use in electrical boxes. It is inserted on the inside back wall of an electrical box, and is a highly intumescent firestop material. When exposed to fire, Bio Fireshield™ LECTRA-STOP™ will expand forming a char that will seal off the opening and prevent the spread of flames and limit the temperature rise on the unexposed surfaces.

Bio Fireshield™ LECTRA-STOP™ is applied by hand, and **must comply with NEC 314.16 (formerly 370.16) or other applicable codes.** U.S. Patent No. 6,207,085 & 6,252,167.

#### Bio Fireshield Electrical Box Insert Features

- \* Easy to Install
- \* Cost Effective
- \* Highly Intumescent
- \* Adheres to Back of Electrical Box
- \* Non-Conductive
- \* Dielectric Breakdown Voltage 22V/mil (ASTM D 149)

### 2. Material Properties

Asbestos Fillers	None
Solvents	None
Hazardous Ingredients	None

#### Sizes (Approx.)

Single box	1 13/16" x 2 13/16" x 1/4"
	47 mm x 71 mm x 6 mm
Double box (two sizes)	
1)	3 11/16" x 3 3/4" x 1/4"
	94 mm x 95 mm x 6 mm
2)	4 3/8" x 4 3/8" x 1/4"
	111 mm x 111 mm x 6 mm

Color	Black
-------	-------

#### ASTM E 84, UL 723 Tunnel Test

Flame Spread	5
Smoke Index	5

STC Rating	55*
------------	-----

\*Tested in a UL 411 wall assembly/section to ASTM E90.

### 3. Applications

Use Bio Fireshield™ LECTRA-STOP™ on inside back panel of electrical boxes to maintain the integrity of fire rated wall assemblies restricting the passage of flames and limiting the temperature rise on the unexposed surfaces.

When Bio Fireshield™ LECTRA-STOP™ is used as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 inches.

### 4. Installation Instructions

Bio Fireshield™ LECTRA-STOP™ is easy. Make sure rear surface is clean, dry and not contaminated. Remove protective paper from tape and stick pad to inside back wall of electrical box\*. Center pad from top and bottom of box. Install switch, or outlet. Use the small pad for a single box (2" x 4"), and double pad for 4" x 4" box, and 4 3/8" x 4 3/8" pad for 4 11/16" x 4 11/16" box. **Make sure installation complies with NEC 314.16 (formerly 370.16) or other applicable codes.**

Consult UL Directory for complete instructions and system listings.

\*If necessary, a maximum 3/8" hole may be created or the pad may be slit from one edge to allow easier access to the electrical box ground screw.

### 5. Testing Data

Bio Fireshield™ LECTRA-STOP™ is classified by Underwriters Laboratories, Inc. under Wall Opening Protective Material as found in the Fire Resistance Directory. For specific test criteria see UL Fire Resistance Directory or call RECTORSEAL. Bio Fireshield™ LECTRA-STOP™ was tested at positive pressure for a minimum .01 inches of water. The basic standard used

to investigate products is UL 263/ ASTM E-119, "Fire Tests of Building Construction and Materials".

Complies to Required Environmental Exposure Testing of Accelerated Aging and High Humidity as per UL 1479 Fire Test of Through-Penetration Firestops.

**6. Storage & Handling**

Bio Fireshield™ LECTRA-STOP™ should be stored in a cool, dry place. Keep products stored under protective cover, in their original containers. A stock rotation program is recommended.

**7. Availability**

Bio Fireshield™ LECTRA-STOP™ is available as pads measuring, single 1 13/16" x 2 13/16" x 1/4" (47 mm x 71 mm x 6 mm) and two double pads, one measuring 3 11/16" x 3 3/4" x 1/4" (94 mm x 95 mm x 6 mm), and one measuring 4 3/8" x 4 3/8" x 1/4" (111 mm x 111 mm x 6 mm).

**8. Limitations**

To be used only in the tested configurations or as recommended by RectorSeal.

**9. CAUTIONS FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800- 424-9300.**

**PRECAUTIONS:** Do not take internally. May be harmful if swallowed. May cause eye and skin irritation if prolonged or repeated contact occurs. Wash after handling. **FIRST AID:** For any overexposure, get immediate medical attention after first aid is given. **Eyes-** Flush 15 minutes with clean water. **Skin-**Wash with soap and water. **Ingestion-**Only if conscious, give large amounts of water and call physician. **FIRE AND SPILLS:** Use water fog, CO<sub>2</sub>, foam, or dry chemicals. Wipe up spills to prevent footing hazard. Clean up with scrapers and water. **STORAGE AND HANDLING:** Store away from heat sources. **KEEP OUT OF REACH OF CHILDREN.**

For additional information, refer to Material Safety Data Sheet.

**For additional technical service,  
call: 1-800-231-3345  
Fax: 1-800-452-2824**

RECTORSEAL  
2601 Spenwick Drive Houston, Texas 77055  
www.biofireshield.com

**NOTE: Not to be used on plastic boxes. For additional information refer to UL Directory. Retain a copy of the Product Data Sheet for review by the inspector.**

**10. LIMITED WARRANTY**

RectorSeal makes the Limited Express Warranty that when the instructions for storage and handling of our products are followed we warrant our products to be free from defects. THIS LIMITED EXPRESS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND OF ANY OTHER OBLIGATION ON THE PART OF RECTORSEAL. The sole remedy for breach of the Limited Express Warranty shall be the refund of the purchase price. All other liability is negated and disclaimed, and RectorSeal shall not be liable for incidental or consequential damages.

Suggestions and recommendations covering the use of our products are based on our past experience and laboratory findings. However, as we have no control as to the methods and conditions of application, we only assume responsibility for the uniformity of our products within manufacturing tolerances.