



# PRODUCT DATA SHEET

For list of systems see [www.biofreshield.com](http://www.biofreshield.com)

## BIOSTOP® 500+ Water-based firestop sealant

### 1. Product Description

Biostop® 500+ is a one component, general purpose fire rated sealant and smoke seal for construction joints and around penetrations through fire rated walls and floors. Biostop® 500+ is a water based, extremely intumescent, non-sag caulking grade sealant that is easy to apply as well as to retrofit. It cures to an elastomeric seal that is suitable where dynamic movement is expected. In the event of a fire, Biostop® 500+ will prevent the spread of flames, smoke, hot gases and water through joint openings and through-penetrations. No dilution or mixing is necessary for use. No special skills are necessary for installation. Biostop® 500+ is applied with a conventional caulking gun, bulk loading gun or can be troweled from the pail. For large applications, it can be pumped directly from the pail. Biostop® 500+ is rated for 1, 2, 3 and 4 hours and has been tested in accordance with the ASTM E814, (UL 1479), UL 2079 and ULC-S115-95 test standards. BIOSTOP® 500+ is protected in a wet stage as well as in a dry stage against mold growth with a combination of biocides.

Use Biostop® 500+ for various applications:

- Through Wall/Floor Penetrations
- Top of the Wall Construction Joints
- Deflection Track Wall Systems
- Wall to Floor Joints
- Floor to Wall Joints
- Concrete on Steel Deck to Wall
- 1,2 , 3 and 4 Hour Gypsum Walls
- Concrete and Concrete Block Walls (CMU)
- Up to 2" PVC/CPVC (open)
- Up to 3" PVC/CPVC/PBS (closed)
- Crosslinked Polyethylene (PEX) tubing
- Steel, Copper, Cast Iron and EMT Pipe
- Fiberglass Insulated Pipe
- AB/PVC Insulation Pipe

Telephone/Power Cables  
Acoustical sealant

For a complete list of product applications or for additional technical information, call RECTORSEAL for the latest updated information.

### Biostop® 500+ Features

- Water Based
- Excellent Freeze-Thaw
- Flexible Set
- Highly Intumescent
- Paintable
- VOC Compliant
- Safe and Easy to Use
- Minimum 3 Year Shelf Life

### 2. Material Properties

Asbestos Fillers           None  
Solvents                   None  
Hazardous Ingredients   None

Application               Caulking  
                                  Gun or  
                                  Trowel

Application temperature  
                                  between 40°F - 120°F  
                                  4°C - 49°C

Activation of Intumescence:

Expansion Begins       375° F  
Expansion Greatest     575° to  
                                  1100° F

Color                       Red

Cure Time                 3 to 4 weeks  
                                  (at 77° F)

Density                   10.4 +/- 0.3  
                                  lbs./gal.

Elastomeric             Yes

Freeze-Thaw             Excellent

Skin Over Time         30 min.  
                                  (at 77° F)

pH Value                 6.5 to 7

Volume Coverage:  
  
for 10.3 oz. tube       18 cu. in.  
for 20.2 oz.           35.3 cu. in.  
for 5 gallon           1155 cu. in.

VOC                       Negligible

### ASTM E 84, UL 723 Tunnel Test

Flame Spread           0  
Smoke Index            0

STC 62\*  
\*Tested in a UL 411 wall assembly/section to ASTM E90.

**ASTM G21**  
Testing for mold and mildew growth resistance  
Tested by a third party independent laboratory to the ASTM G21-13 standard with Fungal Growth Rating results of zero.

### 3. Applications

Biostop® 500+ can be used in interior applications as a general purpose fire rated sealant and smoke seal for construction joints on both vertical



and horizontal surfaces. Also, for applications around penetrations through fire rated walls and floors. Biostop® 500+ is an excellent fire rated acoustical sealant and can be used in areas under constant vibration or movement. Use Biostop® 500+ to prevent the spread of fire and smoke through joints in fire rated gypsum wallboard partitions, concrete block or concrete walls and/or concrete or corrugated steel deck floor/ceiling assemblies.

#### 4. Installation Data

Install Biostop® 500+ using standard caulking techniques or trowel from pails. Biostop® 500+ may also be pumped from the pails. When damming materials are needed, use only materials approved for the specific application.

#### TYPICAL TOP OF WALL INSTALLATION

##### Step 1)

Tightly pack the flute openings and relief gap with fiberglass insulation. Recess insulation a minimum 1/4" from the wall surface.

##### Step 2)

Gun, trowel or pump the sealant as required to a minimum 1/4" depth. Properly tool sealant surface flush with the wall.

#### 5. Testing Data

Biostop® 500+ has been tested in accordance with UL 2079 and listed at Warnock Hersey International, Inc. For specific test criteria, refer to the UL's Fire Resistance Directory or Warnock Hersey International Listing Directory or call RECTORSEAL .

Biostop® 500+ was tested at positive

#### 10. LIMITED WARRANTY

RectorSeal, LLC 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, LLC. 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, LLC 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.

pressure with a minimum 0.01 inches (2.5 Pa) water and in accordance with ASTM E814, (UL 1479) UL 2079 and CAN4-S115-M85.

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



FBC™ System Compatible\* indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with FlowGuard Gold®, BlazeMaster® and Corzan® pipe and fittings.

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#### 6. Storage & Handling

Biostop® 500+ should be stored between 35° and 120°F. to obtain a minimum 3 year shelf life. NOTE: Do not dilute, no mixing is required. Best if protected from freezing. If freezing occurs, thaw completely before using. Keep products stored under protective cover in original containers.

#### 7. Availability

Biostop® 500+ is available in 10.3 oz. & 30 oz. caulking tubes, 20.2 oz. sausage packs and in 2 & 5 gallon pails.

#### 8. Limitations

Biostop® 500+ is not designed to be used in areas under continuous immersion or in areas which would be continuously wet. Biostop® 500+ should not be used against hot uninsulated surfaces above 300° F.

#### 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. **Inhalation-** Remove to fresh air. **Ingestion-** Only if conscious, give large amounts of water and INDUCE VOMITING. **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 container closed. Do not reuse empty container. **KEEP OUT OF REACH OF CHILDREN.**

For additional information, refer to Safety Data Sheet.

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

RECTORSEAL  
2601 SPENWICK DRIVE  
HOUSTON, TEXAS 77055, USA  
www.biofireshield.com

