



A CSW Industrials Company

## PRODUCT DATA SHEET

### Fire-rated Insert for Electrical Boxes

#### Description

Metacaulk® Box Guard™ is a single component fire rated insert for use with 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, Metacaulk® BOX GUARD™ will expand forming a char that will seal off the opening and prevent the spread of flames and limit the temperature rise on the un-exposed surfaces. Metacaulk® BOX GUARD™ is applied by hand, and must comply with NEC 314.16 (formerly 370.16) or other applicable codes.



#### Applications

Use Metacaulk® BOX GUARD™ 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 Metacaulk® BOX GUARD™ is used as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 inches.

#### Characteristics | Features

- Easy to install
- Cost effective
- Highly intumescent
- Adheres to back of electrical box
- Non-conductive
- Dielectric Breakdown Voltage 22V/mil (ASTM D149)
- STC Rating 53

## Installation Data

Metacaulk® BOX GUARD™ is easy to install. 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 single pad for a single box (2" x 4"), and double pad for double box 4" x 4", 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.

**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.**

## Testing Data

Metacaulk Box Guard is classified by Underwriters Laboratories, Inc. under Wall Opening Protective Material as found in the Fire Resistance Directory. For specific test criteria see UL Product iQ or call RectorSeal.

Metacaulk Box Guard was tested to UL 263/ ASTM E119 standard, "Fire Tests of Building Construction and Materials". It meets the requirements of all model building codes.

Complies to Required Environmental Exposure Testing of Accelerated Aging and High Humidity as per UL 1479 Fire Test of Through-Penetration Firestops. Tested to the time-temperature requirements of ASTM E119 (UL 263).

Sound Transmission Class (STC) 53 - The test was performed in accordance with ASTM E90, Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions & Elements.

Tested by a third party independent laboratory to the ASTM G21 standard with Fungal Growth Rating results of zero.

## Material Properties

Asbestos Fillers	None
Solvents	None
Hazardous Ingredients	None
Color	Black

### ASTM E84, UL 723 Tunnel Test

Flame Spread	5
Smoke Index	5



## Inspection & Repair

RectorSeal recommends that a firestop system inspection be conducted during installation of the material in accordance with ASTM E2174 and ASTM E2393. In the event post-installation inspection and destructive sampling is necessary, RectorSeal advises repairing the damaged firestop system by replacing any material that was removed or damaged with the same product originally installed, and ensuring the assembly matches the original firestop listing. RectorSeal advises, that due to the chemical nature of firestop products and sealants, material depth should be determined by measuring the points of adhesion at the substrate bond area as sealants may decrease in size during the curing process

## Storage & Handling

Metacaulk Box Guard should be stored in a dry environment. A stock rotation program is recommended.

## Limitations

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

## 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.

## 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.vv

Manufactured by **RectorSeal LLC • 2601 Spenwick Drive, Houston, TX 77055, USA • 800-231-3345 • Fax 800-441-0051 • RectorSeal.com**

A CSW Industrials Company. RectorSeal, the logos and other trademarks are property of RectorSeal, LLC, its affiliates or its licensor's and are protected by copyright, trademark and other intellectual property laws, and may not be used without permission. RectorSeal reserves the right to change specifications without prior notice. ©2018 RectorSeal. All rights reserved. R50101-0420

