



A CSW Industrials Company

## PRODUCT DATA SHEET

# METACALK® 350i

Highly Intumescent Firestop Sealant

### Description

Metacalk® 350i is a one component, general purpose fire rated sealant and smoke seal for construction joints and through-penetrations. Metacalk 350i 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, Metacalk 350i will prevent the spread of flames, smoke, hot gases and water through joint openings and through-penetrations. No dilution or mixing is required for use. No special skills are necessary for installation. Metacalk 350i 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. Metacalk 350i systems are rated for 1, 2 and 3 hours in accordance with the ASTM E1966 (UL 2079) test standards. Metacalk 350i is protected in a wet stage as well as in a dry stage against mold growth with a combination of biocides.



### Applications

Metacalk 350i 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. Metacalk 350i is also an excellent fire rated acoustical sealant and can be used in areas under constant vibration or movement. Metacalk 350i can also be used on various penetrations such as EMT, telephone & power cables, insulated pipes, etc. in concrete floors and walls, gypsum walls as well as wood floors. Use Metacalk 350i 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.

### Characteristics | Features

- Highly intumescent
- Water based
- Excellent freeze-thaw
- Flexible set
- Paintable
- VOC compliant
- Safe and easy to use
- 3 Year shelf life
- Protected against mold growth

### Packaging

| Code  | Size              | Qty. per Case | Dimensions (in) | Cubic Feet |
|-------|-------------------|---------------|-----------------|------------|
| 66616 | 10.3 oz cartridge | 12            | 8x6x12          | .34        |
| 66611 | 20.2 oz foil pack | 12            | 9x14x7          | .51        |
| 66613 | 5 Gallon          | 1             | 13 dia x 14     | 1.08       |

### Installation Data

Install Metacalk 350i using standard caulking techniques or trowel from pails. Metacalk 350i may also be pumped from the pails. When damming materials are needed, use only materials approved for the specific application.

Consult UL Product iQ for complete instructions and system listings.

### Storage & Handling

Metacalk 350i should be stored between 35°F (2°C) and 120°F (49°C) to obtain a 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.

# METACAULK® 350i

## Highly Intumescent Firestop Sealant

### Testing Data

For specific test criteria, refer to UL Product iQ or call RectorSeal.

Metacaulk 350i was tested at positive pressure with a minimum 0.01 (2.5 Pa) inches water and in accordance with ASTM E1966 (UL 2079). Tested to the time-temperature requirements of ASTM E119 (UL 263).

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

Tested to standards of CAN/ULC S115, S101 and S102.

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 and Elements.



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® piping systems and products made with TempRite® Technology. The FBC System Compatible Logo, FBC™, FlowGuard Gold®, BlazeMaster®, Corzan® and TempRite® are trademarks of Lubrizol Advanced Materials, Inc. or its affiliates.

### 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.

### Limitations

Metacaulk 350i is not designed to be used in areas under continuous immersion or in areas which would be continuously wet. Metacaulk 350i should not be used against hot uninsulated surfaces above 300°F (149°C).

### 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



For more information on our product warranty, visit [rectorseal.com](http://rectorseal.com).

Manufactured by

**RectorSeal, LLC**

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### Material Properties

|                                 |                            |
|---------------------------------|----------------------------|
| Asbestos Fillers                | None                       |
| Solvents                        | None                       |
| Hazardous Ingredients           | None                       |
| Application                     | Caulking Gun or Trowel     |
| Application Temperature between | 40°F - 120°F<br>4°C - 49°C |

### Activation of Intumescence:

|                    |                                 |
|--------------------|---------------------------------|
| Expansion Begins   | 375°F (190°C)                   |
| Expansion Greatest | 575°F - 1100°F<br>302°C - 593°C |

|                |                                |
|----------------|--------------------------------|
| Color          | Dark Red                       |
| Cure Time      | 3 to 4 weeks<br>(at 77°F/25°C) |
| Density        | ~ 11.0 lbs/gal<br>~1.32 kg/L   |
| Elastomeric    | Yes                            |
| Freeze/Thaw    | Excellent                      |
| Skin Over Time | 30 min.<br>(at 77°F/25°C)      |
| pH Value       | 6.5 to 7                       |

### Volume Coverage:

|                         |                              |
|-------------------------|------------------------------|
| for 10.3 oz. tube       | 18 cu. in.<br>(304 ml)       |
| for 20.2 oz. foil packs | 36 cu. in.<br>(597 ml)       |
| for 5 gallon            | 1155 cu. in.<br>(18.9 liter) |
| VOC                     | Negligible                   |

### UL 723 Tunnel Test

|              |    |
|--------------|----|
| Flame Spread | 5  |
| Smoke Index  | 10 |



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