

# PRODUCT DATA SHEET

## Metacaulk® 350i Firestopping Sealant

August 2009



Classified System Numbers CAJ 1541, CAJ 1542, CAJ 1543, CAJ 1544, CAJ 2550, CAJ 2551, CAJ 2552, CAJ 2553, CAJ 2554, CAJ 2555, CAJ 2556, CAJ 3256, CAJ 5296, CAJ 5297, CAJ 7112, CAJ 8175, FA 1070, FC 1138, FC 1139, FC 2326, FC 2327, FC 2329, FC 3092, FC 5074, FC 5075, FC 7038, FC 8039, WJ 1194, WJ 1195, WJ 2195, WJ 2196, WJ 2197, WJ 2198, WJ 5128, WJ 5129, WJ 5130, WJ 7078, WJ 7079, WL 1393, WL 1394, WL 1395, WL 1396, WL 2455, WL 2456, WL 2457, WL 2458, WL 3294, WL 5294, WL 5250, WL 5451, WL 5252, WL 7137, WL 7138



### 1. Product Description

Metacaulk® 350i is a one component, general purpose fire rated sealant and smoke seal for construction joints and through-penetrations. Metacaulk® 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, Metacaulk® 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. Metacaulk® 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. Metacaulk® 350i systems are rated for 1, 2 and 3 hours in accordance with the ASTM E814 (UL1479), UL 2079 and ULC-S115-95 test standards. **Metacaulk® 350i is protected in a wet stage as well as in a dry stage against mold growth with a combination of biocides.**

Use Metacaulk® 350i for various applications:

- Top of the Wall Construction Joints
- Deflection Track Wall Systems
- Up to 2" (51 mm) PVC (Open)
- Crosslinked Polyethylene (PEX) tubing
- Steel, Copper, Cast Iron and EMT Pipe
- Flexible Conduit
- Fiberglass Insulated Pipe
- Armaflex Insulated Pipe
- Telephone, Communication and Power Cables
- HVAC Ductwork

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

### Metacaulk® 350i Features

- Highly Intumescent
- Water Based
- Excellent Freeze-Thaw
- Flexible Set
- Paintable
- VOC Compliant
- Safe and Easy to Use
- Minimum 2 Year Shelf Life
- Protected against mold growth

### 2. Material Properties

|                       |      |
|-----------------------|------|
| Asbestos Fillers      | None |
| Solvents              | None |
| Hazardous Ingredients | None |

|             |                              |
|-------------|------------------------------|
| Application | Caulking<br>Gun or<br>Trowel |
|-------------|------------------------------|

Activation of Intumescence:

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

|       |          |
|-------|----------|
| Color | Dark Red |
|-------|----------|

|                  |                                 |
|------------------|---------------------------------|
| Fully Cured Time | 3 to 4 weeks<br>(at 77°F/ 25°C) |
|------------------|---------------------------------|

|         |  |
|---------|--|
| Density | 10.5 +/- 0.5<br>lbs./gal.<br>1.25 g/cc |
|---------|--|

|             |     |
|-------------|-----|
| 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 (304ml) | 18 cu. in.<br>(295 cc)          |
| for 5 gallon (18.9 liter) | 1155 cu. in.<br>(5000 cu. cm/L) |

|     |            |
|-----|------------|
| VOC | Negligible |
|-----|------------|

### ASTM E 84, UL 723 Tunnel Test

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

STC 53\*

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

### 3. Applications

Metacaulk® 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. Metacaulk® 350i is also an excellent fire rated acoustical sealant and can be used in areas under constant vibration or movement. Metacaulk® 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 Metacaulk® 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.

#### 4. Installation Data

Install Metacaulk® 350i using standard caulking techniques or trowel from pails. Metacaulk® 350i may also be pumped from the pails. When damming materials are needed, use only materials approved for the specific application. Consult UL Directory for complete instructions and system listings.

#### 5. Testing Data

For specific test criteria, refer to the UL's Fire Resistance Directory or Warnock Hersey International Listing Directory 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 E814 (UL 1479), UL 2079 and ULC-S115-95.

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.



FGG/BM/CZ™ 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. FlowGuard Gold®, BlazeMaster® and Corzan® are

licensed trademarks of the Lubrizol corporation.

#### 6. Storage & Handling

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

Metacaulk® 350i is available in 10.3 oz. (304 ml), 30 oz. (887 ml) caulking tubes and 20.2 oz. (597 ml) sausage pack and in 5 gallon (18.9 L) pails.

#### 8. 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).

#### 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 Material Safety Data Sheet.

**For additional technical service,  
call: 1-800-231-3345  
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#### 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.