

# PRODUCT DATA SHEET

August 2011

## Metacaulk® 1500

Classified System Numbers

FF-D-0022, FF-D-0029, FF-D-1024, FW-D-0017, FW-D-0024, FW-D-1020, HW-D-0107, HW-D-0108, HW-D-0109, HW-D-0110, HW-D-0118, HW-D-0217, HW-D-0220, HW-D-0235, HW-D-0267, HW-D-0284, HW-D-0299, HW-D-0300, HW-D-0327, HW-D-0328, HW-D-0331, HW-D-0390, HW-D-0391, HW-D-0536, HW-D-1011, HW-D-1012, HW-D-1020, HW-D-1021, HW-S-0080, WW-D-0101 and WW-D-1028.



### 1. Product Description

Metacaulk® 1500 spray is water-based elastomeric firestop that is designed for spray applications onto joints between fire-resistive assemblies and perimeter barrier (curtain wall) assemblies. It cures to an elastomeric membrane seal that is suitable where dynamic movement is expected. In the event of a fire, Metacaulk® 1500 will prevent the spread of flames, smoke, hot gases and water through the joint openings. No dilution or mixing is required for use. Metacaulk® 1500 can be brushed or applied with a spray pump. Metacaulk® 1500 systems are rated for up to 4 hour conditions in accordance with the UL 2079 (Tests for Fire Resistance of Building Joint Systems) test standards. Metacaulk® 1500 has been cycled 500 times, meeting the new ASTM E 1399 standard. Also tested in accordance with ASTM E 814 (UL1479) for systems up to 3 hours.

Use Metacaulk® 1500 for various applications:

Curtain Wall Joints

HVAC Ductwork

Top of the Wall Construction Joints

Deflection Track Wall Systems

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

### Metacaulk® 1500 Features

- Sprayable or Brushable
- Water based
- Flexible - Elastomeric
- Paintable
- VOC Compliant
- Excellent Smoke Seal
- Minimum 1 Year Shelf Life

### 2. Material Properties

Asbestos Fillers	None
Solvents	None
Hazardous Ingredients	None
Application	Spray, Brush
Color	Red or Beige
Cure Time (25°C)]	7 to 14 days [1/8" at 77°F
Density	10.3 lbs./gal.
Flexible	Yes
Skin Over Time	30 - 45 min. [at 77°F (25°C)]
pH Value	7 to 9
Volume Coverage (at 1/8" wet depth):	
Per Square Foot	13 cu. in
Per 5 gallon pail	1155 cu. in.
VOC	30 g/l

### ASTM E 84, UL 723 Tunnel Test

Flame Spread	0
Smoke Index	0



### Sound Transmission Class STC Rating 62\*

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

### 3. Applications

Metacaulk® 1500 can be used as a general purpose fire rated sealant and smoke seal for construction joints on both vertical and horizontal surfaces. Metacaulk® 1500 can be used in areas under constant vibration or movement.

### 4. Installation Data

Metacaulk® 1500 is designed for optimal application to clean, dry substrates when the air and substrate temperature is between 40°F to 90°F (4°C to 32°C). Metacaulk® 1500 should not be applied when the air or substrate temperature is below 32°F (0°C).

Metacaulk® 1500 is formulated to be spray applied with commonly available airless spray equipment designed for application of heavy bodied latex paint.

Tightly pack with the appropriate backing material as listed in the selected UL System design. There should be no loose insulation, voids or gaps present. Apply the required coating thickness to completely cover backing material. Overlap a minimum of 0.5 in. (13 mm) beyond all edges of the opening onto surrounding construction surfaces.

Consult UL Directory for complete instructions and system listings.

For Metacaulk® 1500 spray application, use recommended spray equipment. Contact Technical service at 1-800-231-3345 for current recommendations.

When system clean up is needed, follow manufacturer's instructions for specific equipment used.

**NOTE: SPRAY EQUIPMENT CAN BE DANGEROUS! USE ONLY PROPERLY TRAINED PERSONNEL. FOLLOW ALL SAFETY AND OPERATION INSTRUCTIONS AND PROCEDURES.**

## 5. Testing Data

Metacalk® 1500 has been listed by UL. For UL classified system numbers, see above. Additional listings can be obtained by calling RECTORSEAL. For specific test criteria, refer to the UL Fire Resistance Directory or call RECTORSEAL.

Metacalk® 1500 was tested at positive pressure with a minimum 0.01 inches (2.5 Pa) water and in accordance with UL 2079 test standards.

## 6. Storage & Handling

Metacalk® 1500 should be stored in unopened container between 35°(2°C) and 120°F (49°C) to obtain a minimum 1 year shelf life. NOTE: Do not dilute; no mixing is required. Best if protected from freezing.

## 7. Availability

Metacalk® 1500 is available in 5 gallon pails.

## 8. Limitations

Metacalk® 1500 is not designed to be used in areas under continuous immersion or in areas which would be continuously wet. Metacalk® 1500 should not be used on hot uninsulated surfaces above 200°F (93°C).

## 9. Cautions

**FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRES, 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. Wear gloves and safety glasses. Wash after handling. **FIRST AID:** For any overexposure or if skin irritation develops get immediate medical attention. **Eyes** - Flush 15 minutes with clean water. **Skin** - Wash with soap and water. **Ingestion** - Call physician immediately. **SPILLS:** Clean up immediately with scrapers and water. **STORAGE AND HANDLING:** Keep container upright and tightly closed. Do not reuse empty container. **KEEP OUT OF REACH OF CHILDREN.**

## 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.

For additional information, refer to Material Safety Data Sheet.

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### **METACALK® 1500 COVERAGE RATE:**

NOTE: Coverage rates as given are mathematical calculations. Allow for application losses, opening size variations and applied thickness variations. (Verify all calculations)

Based on 3" fluted metal deck with 3/4" relief joint.

Opening Width (inches)	*Coverage Rate in Lineal Feet Per Gallon at Application Thickness of: 1/8 inch
1/2	102
3/4	88
1	77
1 1/2	61
2	51
2 1/2	44
3	38
3 1/2	34
4	30
5	25
6	22

\* Calculation includes 1/2" overlap along both edges of opening