

METACAULK® 1200 1200 CAULK GRADE Spray & Caulk Firestop Sealant

Description

Both grades of Metacaulk 1200 are a single component, general purpose fire rated sealants for construction joints such as top of the wall, curtain wall perimeter, expansion, control, etc. and for general construction gaps and voids. Metacaulk 1200 is a water based sealant that comes in two different grades. Metacaulk 1200 mastic grade is designed for spray applications and provides a fast, economical means of installation on long joint runs. Metacaulk 1200 caulk grade is a non-sag sealant that is easy to apply from a caulk gun or troweled. It cures to an elastomeric membrane seal that is suitable where dynamic movement is expected. In the event of a fire, Metacaulk 1200 will prevent the spread of flames, smoke, hot gases and water through the joint openings. No dilution or mixing is required for use. Metacaulk 1200 can be caulked from a tube, brushed or troweled from the pail, or applied with a spray pump. Metacaulk 1200 systems are rated for up to 3 hour conditions in accordance with ASTM E1966 (UL 2079) (Tests for Fire Resistance of Building Joint Systems), test standards. Metacaulk 1200 has been cycled 500 times, in accordance with the new ASTM E1399 standard. Also tested in accordance with ASTM E814 (UL 1479) for systems up to 4 hours. Metacaulk 1200 is protected in a wet stage as well as in a dry stage against mold growth with a combination of biocides.



Applications

Metacaulk 1200 can be used as a general purpose fire rated sealant and smoke seal for construction joints on both vertical and horizontal surfaces. Metacaulk 1200 is also an excellent fire rated acoustical sealant and can be used in areas under constant vibration or movement.

Characteristics | Features

- Sprayable, Brushable, Trowelable, or Caulkable
- Freeze-thaw capable
- Water based
- Flexible - Elastomeric
- Paintable
- VOC compliant
- Excellent smoke seal
- 3 Year shelf life

Packaging

Code	Size	Qty. per Case	Dimensions (in)	Cubic Feet
Red				
66292	20.2 oz. foil pack	12	9x14x17	.51
66015	30 oz cartridge	12	11x9x17	.97
66379	5 Gallon	1	13 dia x14	1.08
66529	5 Gal. spray	1	13 dia x 14	1.08
66387	5 Gallon caulk grade	1	13 dia x14	1.08
White				
66525	30 oz. cartridge	12	11x9x17	.97
66527	5 Gal. Spray	1	13 dia x 14	1.08
66526	5 Gal. Spray	1	13 dia x14	1.08
66386	5 Gallon caulk grade	1	13 dia x14	1.08
66294	20.2 oz. foil pack	12	9x14x7	.51

Installation Data

Tightly pack with the appropriate backing material as listed in the selected UL Tested System design. There should be no loose insulation, voids or gaps present. Apply the required coating thickness to completely cover backing material.

Consult UL Product iQ for complete instructions and system listings. For Metacaulk 1200 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 BY PROPERLY TRAINED PERSONNEL. FOLLOW ALL SAFETY AND OPERATION INSTRUCTIONS AND PROCEDURES.

Spray application of Metacaulk 1200 Spray requires airless spray equipment meeting the following specifications:

Working Pressure: Min. 2500 PSI (172 Bar)

Delivery: Min. .72 U.S. gpm (2.7 l/min.)

Recommended Spray Tip Orifice: 0.021 to 0.025 in. (0.53 to 0.64 mm)

Recommended Wetted Parts All seals and contact surfaces suitable for contact with latex emulsions.

A minimum 3/8" (9.5 mm) fluid line is required, a 1/2" (13 mm) line is preferred. Consult pump manufacturer for long hose runs or lifts to higher elevations. A reversible spray tip is recommended. A 6" (152 mm) fan pattern is suggested to minimize overspray. The following airless spray equipment has demonstrated suitability for application of this product.

Manufacturer Model Number & Description

Titan Tool Inc. 740ix Electric Airless Sprayer
Graco Inc. Ultra Max II 695 Electric Airless Sprayer

Testing Data

Metacaulk 1200 is classified by Underwriters Laboratories Inc. For specific test criteria, refer to the UL Product iQ or call RectorSeal.

Metacaulk 1200 was tested at positive pressure with a minimum 0.01 inches (2.5 Pa) water and in accordance with UL 2079 test standards.

Sound Transmission Class (STC) 65 - 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.

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



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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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.

Material Properties

Asbestos Fillers	None
Solvents	None
Hazardous Ingredients	None
Application	Spray, Caulking Gun or Towel
Application Temperature between	40°F - 120°F 4°C - 49°C
Color	Red or White
Cure Time	5 to 7 days (1/8" at 77°F/25°C)
Density	~10.5 lbs/gal
Flexible	Yes
Skin Over Time	30-45 min. (at 77°F/25°C)
pH Value	7 to 9

Volume Coverage:

per 20.2 oz	36 cu. in
per 30 oz	54 cu. in
per 5 gallon pail	1155 cu. in.
VOC	Negligible

ASTM E84, UL 723 Tunnel Test

Flame Spread	0
Smoke Index	0

Storage & Handling

Metacaulk 1200 should be stored in unopened container between 35°(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 use. Keep products stored under protective cover in original containers.

Limitations

Metacaulk 1200 is not designed to be used in areas under continuous immersion or in areas which would be continuously wet. Metacaulk 1200 should not be used on hot uninsulated surfaces above 200°F (93°C).

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.**

For additional information, refer to Safety Data Sheet.

METACAULK 1200 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 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

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.



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