



A CSW Industrials Company

PRODUCT DATA SHEET

METACAULK® 835+ SPRAY
Elastomeric, sprayable silicone firestop sealant

Description

Metacaulk® 835+ Spray is an elastomeric silicone based firestop sealant that will prevent the spread of flames, smoke, hot gases and water through joint openings. Cures to a flexible seal. Is suitable for areas of significant movement and can be applied to horizontal and vertical surfaces.

Applications

Wall-to-Floor Transition Joints. Wall-to-Wall Control Joints. Floor-to-Floor Control Joints and Curtain Wall Joints. Ideal for applications that require movement and or washout and water resistance in a short period of time. For best results use an airless sprayer at 3200 PSI static pressure with a 3/8" hose and .415-.419 spray tip.



Characteristics | Features

- Cures to flexible seal
- Suitable for areas of significant movement
- Can be applied to horizontal and vertical surfaces
- Excellent moisture resistance
- Forms a water/rain resistant seal after 1 hour
- Interior and exterior application
- Application temperature -20° F to 120° F
- Excellent freeze-thaw

Packaging

Code	Size	Qty. per Case	Dimensions (in)	Cubic Feet
66295	5 Gallon	1	13 Dia. x 14	0.67

User Instructions

Mixing is required before application. The material should be stirred thoroughly prior to application. Store between 50°F and 77°F (10C to 25C). 18-month shelf life. Best if protected from freezing. If freezing occurs, thaw completely before use. Repeated exposure to large temperature swings could result in separation.

Step 1 After joints have been properly made, install firestop system per approved detail drawings on one or both sides of the floor or wall.

Step 2 Clean all joints in the sealing area to remove loose debris, dirt, oil, wax, grease, old caulking, etc.

Step 3 Sealant should be at room temperature for the best application. Surface and air temperatures should be above 40°F.

Step 4 Tightly pack joints and any other gaps with the appropriate backing material as listed in the selected tested or recommended design. The backing material should be flush with surface assembly. There should be no loose backing material, voids, or gaps present.

Step 5 Spray the required coating thickness to completely cover backing material and overlap a minimum 1/2" on all adjacent substrates.

Step 6 Follow manufacturer's airless sprayer specific equipment cleaning instructions. Any unused sealant should be resealed tightly in the original container to prevent curing.

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


Material Properties

Density	1.002g/ml
Solids	97.0%
Cure Method	Neutral, moisture cure
Skin Over Time	30-60 minutes
Full Cure/Adhesion	24 Hours for 1/8" thickness
Tensile Strength	23.5 kPa
Tear Strength	0.82 kN/m
Color	Gray
Volume Coverage:	
5 gallon	1155 cu. in. (18.9 liter)

Testing Data

TESTED IN ACCORDANCE WITH ASTM E1966 (UL 2079), ASTM E2307, ASTM E1399. Tested to the time-temperature requirements of ASTM E119 (UL 263).

Sound Transmission Class **(STC) 55** - 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.

	<p>RECTORSEAL, LLC Metacaulk 835+ Spray</p> <p>Control No. 5009113</p> <p>Certified to: UL 2079, ASTM E2307, ASTM E1399, ASTM E1966 Refer to Intertek Directory of Building Products (https://bpdirectory.intertek.com) for detailed information.</p>
--	---



Inspection & Repair

RectorSeal recommends firestop system inspection is 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

Store in a clean, dry area at a temperature between 50°F to 77°F (10°C to 25°C). Keep product stored under protective cover, in the original container. Product has a shelf life of 18 months. A stock rotation program is recommended.

Limitations

Do not use Metacalk 835+ Spray in computer rooms as spray can form a fine mist during spraying that could possibly damage sensitive electronics that are not properly protected.

METACALK RECOMMENDS THE USE OF AIRLESS PAINT SPRAYERS TO APPLY METACALK MC 835+ MATERIAL

Recommended Spray Equipment

Graco Ultramax II 595 and 695 series sprayers or equivalent

Titan Impact 640 and 740 series sprayers or equivalent

Sprayers must be capable of a minimum of .70 gallons per minute volume at 2,800 psi with up to a .027-inch tip size.

Sprayer Set Up - Recommendations only, Sprayer manufacturer's instructions should be followed.

1. Use minimum 3/8-inch hose for hose lengths up to 50 feet and minimum 1/2-inch hose for hose lengths over 50 feet up to 100 feet.
2. Ensure pump is properly lubricated prior to operating equipment.
3. Connect hose to pump and hose to spray gun, ensuring all fittings are air tight.
4. Connect sprayer to properly grounded electrical supply with appropriate voltage for the spray pump.
5. Remove tip guard for priming process.
6. Relieve any pressure in the system by depressing the trigger on the spray gun, rotate the prime valve open and closed during this process to ensure any back pressure is removed.
7. Prime the spray pump by inserting the spray pump's siphon tube into the firestop material to be used, it is best practice to place the prime tube outside of the material container and into an appropriate receptacle to capture any cleaning solution or residual material.
8. With prime valve in the open position, turn the pressure controller to its lowest level and turn the pump on, with the pump on, gradually increase pressure to allow material to flow through the prime tube into the catch receptacle until there is no visible air exiting the prime tube and only a continuous flow of the material to be sprayed.
9. The prime valve can now be rotated to the closed position and increase pump pressure to the level required to apply material, usually 1,800 to 2,500 psi. with the spray guard removed point the spray gun into the catch receptacle used for the prime tube or another appropriate area and depress the spray gun trigger until the material to be applied flows through the gun without air or cleaning residue present.
10. Install the appropriate tip and tip guard onto the spray gun with the tip for joint width, material depth and material type. Always confirm tip and pressure settings on a test area before commencing work.
11. Adjust the pressure of the spray pump until the desired spray pattern is achieved, increase spray pressure to eliminate heavy edges, if spray continues to be heavier on the outside edges change spray tip to a smaller orifice size.

Application

1. Use even continuous movements maintaining a consistent distance from the substrate surface to apply spray material ensuring spray coverage as required by the testing and installation instructions.
2. If the spray tip becomes clogged, rotate the spray tip to the clean position and discharge the spray gun into an appropriate receptacle until the clog is removed.
3. Rotate the tip back to the spray position for use.

Cleaning & Maintenance

Clean the spray pump, hose and sprayer at the end of usage daily. Do not let the spray pump sit with material inside for prolonged periods.

Recommendation- follow manufacturer instructions

Silicone based products use mineral spirits, using a minimum of 10 gallons or until the cleaning material flows clearly through the spray pump. Ensure the spray pump and gun are grounded during the cleaning process as static electricity can build.

1. To clean the spray pump, turn the power off and remove pressure from the spray pump and spray gun.
2. Insert the siphon tube into the cleaning fluid and remove the spray tip guard.
3. Follow the process of priming and setting up the spray pump as outlined previously to run at least 5 gallons of the cleaning solution through the spray pump after it has been primed, recycling the cleaning material into the cleaning fluid bucket.
4. Circulate 5 gallons of the cleaning fluid through the system on normal spray mode dispensing and recycling spray material into the bucket of cleaning liquid.
5. With a new 5 gallon pail of cleaning solution cycle the material through the equipment dispensing the cleaning material into a separate 5 gallon pail.
6. Repeat this process with cleaning solution and discharge the material into a separate bucket until the discharged cleaning material flows without residue of firestop material and cleaning solution is contaminant free.

Tip Guide

Recommended are tip sizes ranging from .015-.019 and fan patterns from 2 to 4.

The first number is ½ of the spray fan width at 12 inches so a .225 would have a 4-inch-wide fan pattern. The second 2 numbers represent the orifice size, in the case above this would be a .025 spray tip opening.



WARNING

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC-DAY OR NIGHT 1-800-424-9300.

KEEP OUT OF REACH OF CHILDREN.

For additional information, refer to Safety Data Sheet (SDS).

Limited Warranty



For more information on our product warranty, visit rectorseal.com.



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. © 2021 RectorSeal. All rights reserved. R50103-0921