



Public

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3M™ Ultrapro™ MSP Sprayable Seam Sealer

Data Sheet

3M Part No.(s)	3M Part Descriptor(s)
08374	3M™ Ultrapro™ MSP Sprayable Seam Sealer

3M Fax on Demand Identification Number: 08374

Description

3M™ Ultrapro™ MSP Sprayable Seam Sealer is a high-solids, moisture-curing seam sealer that can be caulked or sprayed as a sealer or a sound deadening coating. The sealer provides a fast method of sealing trunk and floor pan seams, quarter panel seams, and any other seam where a sprayed or coated appearance is necessary.

Features, Advantages, Benefits

Features	<ul style="list-style-type: none"> Able to produce a bead, sprayed seam, or sprayed coating appearance Excellent adhesion to primed metal and aluminum Fast curing and immediately paintable Very low solvent percentage Excellent shelf life No problems with alcohol-containing solvents
Advantages	<ul style="list-style-type: none"> Multiple appearances can be achieved with one gun and sealer combination Minimal opportunity for bond failure No need to wait to move the car into the paint area Minimal airborne solvent during curing process Product stays usable for longer than standard seam sealers Product will cure even if contacted with alcohol-containing solvents
Benefits	<ul style="list-style-type: none"> Saves cost and space of carrying multiple unnecessary products Fewer comebacks for seam sealer failure Save and make money by eliminating time waiting to paint seam sealer Minimal solvent odor or health issues Less product waste because past its shelf life No re-work because solvents inhibited seam sealer cure

Typical Physical Properties

Container	1/10 gallon caulking cartridge
Base	Modified Silane Polymer
Density lbs/Gallon (Appx.)	13 lb/gal
Color	Gray
Flash Point - °F	144°F
Viscosity (CPS) Brookfield	500,000 CPS
Viscometer	
RVF #4 @ 20 RPM	

Solids Content (Appx.)	97%
Consistency	Thin Paste
Service Temperature - °F	-20°F-200°F
Solvent	Minimal Naphtha

Product Uses

1. Bead can be used for general purpose automotive seams, including door skins, rocker panels, rear body panels, trunk seams, floor pans, etc.
2. Sprayed seam can be used for trunk seams, quarter panels, any other OEM sprayed seam replacement.
3. Sprayed coating can be used inside door skins, inside body panels, or any area where a sound deadening coating is needed.

Performance Properties

Cold Temperature Resistance @ -20°F	(Remains Flexible)
Heat Resistance-8 Weeks @ 200°F	(No Degradation)
Adhesion-Primed Metal: Excellent	(Cohesive Failure)
Bare Metal: Excellent	(Cohesive Failure)
Tensile- Appx. 200 PSI	
Elongation- Appx. 200%	

Handling and Application Information

Directions for Use

1. For best results, apply over automotive primer. Applying over bare metal will not provide enough corrosion protection. Acid etching primer is not recommended; if used, be sure to allow to fully cure before applying seam sealer, or residual acid can weaken the bond.
2. If necessary after priming, clean and dry surface with 3M™ General Purpose Adhesive Cleaner, PN 08984. Do not use an adhesive cleaner until the primer has fully cured.
3. Punch out metal seal on base of cartridge and small metal seal in the opening of the caulk tube.
4. Attach nozzle to cartridge by screwing it on (nozzles should be provided with each tube of seam sealer).
5. Place cartridge into front end of Sprayable Seam Sealer Applicator Gun, PN 08400.
6. Add the exterior nozzle that is supplied with the gun and replace the retaining collar.
7. Set air pressure and gun per instructions provided with the gun. An additional set of instructions is supplied at the end of this section of the technical data sheet.
8. Apply seam sealer and tool (if necessary) to desired finished appearance.
9. The product is paintable immediately after application, up to 72 hours. After 72 hours, scuff the sealer prior to painting.
10. After use, dispose of both the nozzle attached to the tube, and empty package. Do not dispose of the exterior nozzle, it is part of the gun assembly.

TECH TIP SHEET

3M™ Ultrapro™ MSP Sprayable Seam Sealer
(PN 08374)

Nozzle Purging

A characteristic of the 3M™ Ultrapro™ MSP Sprayable Seam Sealer and the Sprayable Seam Sealer Applicator Gun (PN 08400) is that some sealant continues to flow out of the nozzle after the trigger is released. In order to control this flow of sealant, a purging method to remove the excess sealant in the nozzle was developed. The correct purging method is as follows:

1. Change the plunger pressure (blue valve) to 0 and set the air atomization pressure (red valve) at 4 or lower.
2. Squeeze the trigger on the applicator gun to 1/3 of the full trigger stroke. Do this twice in rapid succession. This will clear nearly all of the sealant from the outer gun nozzle.

Caution: Make sure the plunger pressure (blue valve) is at 0 and do not set the air atomization valve (red valve) any higher than 4 during this procedure. Failure to do so will create backpressure in the gun and cause the sealant to reverse discharge into the length of the gun barrel. This will cause the gun to fail and void any manufacturer warranty.

Pressure Valve Settings

Technicians will need to adjust pressure settings and vary nozzle tip distances from the surface in order to achieve the desired appearance of a bead, sprayed seam or coating. The airline pressure to the Sprayable Seam Sealer Applicator Gun should be controlled with a pressure regulator between 50-95 psi. **Do not exceed 95 psi.**

When the applicator gun pressures and the distance from the surface are adjusted appropriately, no overspray is observed. If overspray is experienced, check the air pressure to the gun. The following gun pressure valve settings are listed as general guidelines for producing the desired patterns:

- **Beads:**

Turn the red valve to 0 and adjust the blue valve to:

- Narrow Bead – 3 to 4
- Wide Bead – 5 to 6
- Heavy Bead – 7 to 8

- **Sprayed Seam:**

Adjust the blue valve to 5

Adjust the red valve to 2.5 – 3

* Spray at a distance of 1-2” from the surface to minimize overspray.

- **Coating:**

Adjust the blue valve to 5

Adjust the red valve to 2.5-3.5

* Spray at a distance of 10-12” from the surface to minimize overspray.

Nozzle Cleaning

Immediately after use, clean both the inner and outer nozzles.

In preparation for spraying 3M™ Ultrapro™ MSP Sprayable Seam Sealer, always check both nozzles to ensure that cured sealant is not blocking the nozzle orifice or within the nozzle tip. Remove cured sealant blockage using a heavy-gauge wire, such as a clothes hanger.

Some indications that the nozzles are blocked (and the remedies for them) are:

1. Symptom: The sealant will not spray or caulk.
Solution:
 - a. Wear eye protection
 - b. Disconnect air supply
 - c. Turn both the red and blue knobs to 1
 - d. Point tip in a safe direction
 - e. Squeeze trigger 2 or more times
 - f. Insert stiff wire 2 inches into tip to unclog
 - g. Turn both red and blue knobs back to 0 before reconnecting air
2. Symptom: The sealant sprays or caulks erratically.
Solution:

Remove both nozzles and check for cured sealant along the inside walls of the nozzle.
Remove the cured sealant using a heavy-gauge wire.

Paint Window

3M™ Ultrapro™ MSP Sprayable Seam Sealer provides excellent paint adhesion immediately and for up to 24 hours after application. Scuffing the sealer with a Scotch-Brite™ Scuff Pad is not necessary or recommended, especially for sprayed seams and coatings. 3M™ Ultrapro™ MSP Sprayable Seam Sealer may be painted immediately after applications for thicknesses up to ¼". Most competitive products must be painted within the first few hours after application to provide adequate paint adhesion.

* If 'Directions for Use' reference P.N.'s 08984, 08986, or 08987, please read. Federal and local air quality regulations may regulate or prohibit the use of surface preparation and cleanup solvents based on VOC content. Consult your local and Federal air quality regulations for information. When using solvents, use in a well ventilated area. Extinguish all sources of ignition in the work area and observe precautionary measures for handling these materials. Refer to product label and MSDS for P.N. 8984, 8986, or 8987 for detailed precautionary information.

Applications

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3. Sprayed coating can be used inside door skins, inside body panels, or any area where a sound deadening coating is needed.

Storage and Handling

Store at room temperature. Rotate stock on a "first-in-first-out" basis. When stored at the recommended conditions in original, unopened containers, this product has a shelf life of 12 months. Use in a well-ventilated area.

Precautionary Information

Refer to Product Label and Material Safety Data Sheet for Health and Safety Information before using this product

Country

This document is public. It may be distributed.

Warranty and Limited Remedy

This product will be free from defects in material and workmanship at the time of shipment. 3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application. If this product is defective, your exclusive remedy and 3M's and seller's sole obligation shall be, at 3M's option, to replace the product or refund the purchase price.

LIMITATION OF LIABILITY: 3M and seller will not be liable for any loss or damage arising from this 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

For Additional Health and Safety Information

3M Automotive Aftermarket Division
3M Center, Building 223-6N-01
Saint Paul, MN 55144-1000
1-877-666-2277 (1-877-MMM-CARS)

Material Safety Data Sheets and Technical Data Sheets are also available by calling Fax on Demand 1-800-305-0419.
Help Line 1-800-621-5455 (US) 1-650-596-4407 (International).

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