



# Bare-Metal Seam Sealer

## 58310

Technical Data Sheet

July 2017

3M Part No.(s)	3M Part Descriptor(s)
58310	3M™ Bare-Metal Seam Sealer

**Product Description** 3M™ Bare-Metal Seam Sealer uses two part epoxy technology to provide a tough yet flexible material for the sealing of joints and seams of bare or primed/painted substrates such as steel or aluminum enclosures. This material provides quick cure time and non sagging properties that aid during vertical applications, and allow top coating with common automotive type paints in 15 minutes under normal conditions. 3M™ Bare-Metal Seam Sealer contains chemical corrosion inhibitors and is packaged in a unique 600 mL cartridge designed to be used with the 3M™ Dynamic Mixing Applicator (PN 05846) providing fast delivery of high volumes of material.

### Features

- Two Part Flexible Epoxy Chemistry
- Direct to Metal
- Non-sag Formula
- 600 mL Dynamic Mixing System Cartridge

### Typical Physical Properties

**Note:** The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Container	600 ml Two Part Cartridge
Base	Epoxy
Density	9.4 - 9.9 lbs/gal
Color	Beige
Viscosity (press flow method)	150 - 245 secs (20 psi, 20 g)
Solids Content	100%
Consistency	Paste
Service Temperature	-20°F to 180°F (-29°C to 82°C)

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## Product Uses

A two-part seam sealer for all general purpose automotive sealing needs that cures quickly to a tough, strong bead for lasting seam sealing protection. This includes door skins, floor pans, trunk floors, roof seams, and many other applications.

**Use with the following applicators and accessories:**

**PN 05846 pneumatic. 3M™ Mixing Nozzle PN 55847, PN 08194 (50/box).**

**Use nozzle extension PN 58207 to decrease adhesive bead size or reach difficult to access areas.**

**For professional use only. Not intended for retail sale.**

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## Performance Properties

The following information has been determined with ambient air temperature and substrate temperature @ 75°F (24°C) and are considered typical values and should not be used for specification purposes.

### WORK TIME

7 minutes

### MIX NOZZLE DWELL TIME

6 minutes

### CURE TIME

1 hour

### PAINT TIME

15 minutes

### TENSILE STRENGTH

860 PSI

### ELONGATION

125%

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## Directions for Use

**NOTE:** 3M Best Practice is that all sealers, unless designated specifically for use on bare metal, should be applied to properly prepared automotive paint or primer.

### SURFACE PREPARATION:

**NOTE:** Acid etch primers should never be in direct contact with seam sealer.

1. Prepare bare metal by sanding with P80 to P220 abrasive, blow off and clean the surface with a pre-cleaner. When applying 3M™ Bare-Metal Seam Sealer (PN 58310) to primer/paint, scuff the surface with a ScotchBrite® General Purpose Hand Pad.
2. Blow off dust with clean, compressed air and wipe with a pre-cleaner.

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## Directions for Use (continued)

### PRODUCT PREPARATION:

1. Place an adhesive cartridge in the applicator gun.
2. Remove the cap from the top of the cartridge.
3. Before attaching a nozzle, “equalize” the cartridge by dispensing just enough product to be sure that both parts A and B are present at the outlet.
4. Attach a 3M™ Dynamic Mixing Nozzle to the cartridge making sure it is secured by the nozzle locking tabs.
5. Dispense a small amount of material through the mixing nozzle onto a disposable surface and discard.

### GENERAL REPAIR PROCESS:

1. Extrude sealer onto surface. Allow to cure a minimum of 15 minutes before beginning the painting process.

**NOTE:** If sealer is allowed to cure more than 24 hours, scuff the sealer prior to any painting steps.

### APPLICATION WARNINGS:

- **Not to be used in direct contact with acid etch primers.**

### STORAGE:

After initial use, leave mix nozzle in place to seal the cartridge.

### CLEAN-UP:

Unmixed material may be cleaned from most surfaces with a VOC compliant product for removal of surface contaminates.

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## Applications

Sealing of seams to prevent intrusion of water, dust, air, or other inert contaminates. This sealer is not recommended for the repair of containers designed to contain liquids, fuels, or liquids under pressure and is primarily used in the auto body repair industry but may be suitable for some architectural or industrial applications (user assumes responsibility to test for suitability).

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## Storage and Handling

### HANDLING

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep out of the reach of children. Keep container closed when not in use. Avoid breathing of dust created by cutting, sanding, grinding or machining. For industrial or professional use only. Avoid eye contact with dust or airborne particles.

### STORAGE

When stored at the recommended conditions in original, unopened containers, this product has a shelf life of 24 months from the date of manufacture. Store in a dry area at 72°F (21°C) for optimal shelf life. Store away from acids and other oxidizing agents.

**After use, leave mix nozzle in place to seal the cartridge.**

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## Precautionary Information

Before using this product, please reference Product Label and/or Safety Data Sheet for Health and Safety Information. Note: Laws controlling the acceptable amounts of Volatile Organic Compounds (VOC's) vary by state, and in some cases by locality. For surface preparation and clean-up activities, consult federal, state and local regulations regarding use of products containing VOCs in your area.

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## Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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## Product Use

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

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