



# Technical Data Sheet

## 3M™ Scotch-Seal™ Metal Sealant 2084



[Product Details](#)



[Regulatory Info/SDS](#)

### Product Features

- 3M™ Scotch-Seal™ Metal Sealant 2084 is a one-part aluminum colored sealant which air dries to a tough, flexible film that resists water, oils and fuel.
- Retains sealing properties after extended aging when painted.
- Can be used to bond and seal aluminum to glass; also adheres well to many other metals and woods. Painting after curing is recommended, especially if sealed area will be subjected to UV exposure.

### Technical Information Note

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

### Typical Uncured Physical Properties

Attribute Name	Value
Net Weight	7.7 — 8.1 lb/gal

### Typical Mixed Physical Properties

Attribute Name	Value
Tack Free Time	5 min
Gap Fill	1 — 16 in

### Typical Physical Properties

Attribute Name	Temperature	Value
Color		Aluminum
Solids Content by Weight		40 — 47 %
Viscosity	22 °C (72 °F)	500 — 2500 <sup>1</sup>
Viscosity	27 °C (80 °F)	7,000-22,500 cP <sup>2</sup>
Dry Time		1,440 min <sup>3</sup>
Solvent Resistance		Acetone
Coverage		1,500 LF/gal <sup>4</sup>
Flash Point		-18 °C (0 °F) <sup>5</sup>

<sup>1</sup> Brookfield Viscometer, RVF #6 sp. @ 4rpm

<sup>2</sup> Brookfield Viscometer, RVF #6 sp.

<sup>3</sup> Dry time will depend on ambient temperature, humidity and coverage applied.

<sup>4</sup> 1/8 inch diameter wet bead

<sup>5</sup> Closed Cup

### Typical Performance Characteristics

Temperature: 22 °C (72 °F)

Substrate: Canvas to Aluminum

Attribute Name	Value
180° Peel Adhesion	43.8 N/cm (400 oz/in) <sup>1</sup>

<sup>1</sup> 2in/min

## **Handling/Application Information**

### **Directions for Use**

**Surface Preparation:** Best results are obtained on clean, dry surface. Oil, grease and other contaminants may be removed by wiping with a solvent such as isopropyl alcohol, MEK, acetone, or other locally compliant solvent.\*

**Application:** Production dispensing is best achieved with pressure-flow equipment. Hand caulking guns may also be used.

**Cleanup:** Equipment and excess sealer may be cleaned with solvent such as isopropyl alcohol, MEK, acetone, or other locally compliant solvent.\*

\*Note: When using solvents for clean-up, extinguish all ignition sources and follow manufacturer's precautions and directions for use when handling such materials.

### **Application Equipment**

**Note:** Appropriate application equipment can enhance adhesive performance. We suggest the following application equipment for the user's evaluation in light of the user's particular purpose and method of application.

Pump - 9 to 1 ratio double acting ball check type pump, 11.0 cu. inch per cycle with 4 1/4" air motor with single wiper follower plate. Packings, hoses and pail wiper must be compatible with acetone.

Hose - Nylon lined, 500 psi working pressure.

Reference Information

Material Temperature - 58°F (14°C)

Hose Assembly	Material Pressure psi	Output Lb./Min.	Material Pressure psi	Output Lb./Min.
Ten Foot Length 3/4 I.D. Hose	324	5.7	180	2.4
Twenty Foot Length 3/4 I.D. Hose	405	4.6	180	1.1
Twenty Foot Length 1/2 I.D. Hose	675	6.2	180	.48
Ten Foot Length 1/2 I.D. Hose	810	1.0	—	—

**Note:** Material pressure = operating air pressure x pump ratio.

Flow Gun - Tip seal type.

Manual Caulking Gun Filling - Kenmar® caulking gun loader with acetone resistant wiper; Graco® Model 225-975 gun loader with acetone resistant wiper; Pyles® Vaculoader.

Chemical Resistance Requirements - Synthetic materials in contact with 3M™ Scotch-Seal™ Metal Sealant 2084 must be resistant to acetone. Polysulfide, butyl, nylon and PTFE are compatible.

## **Storage and Shelf Life**

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original, unopened packaging, out of direct sunlight. Lower temperatures cause increased viscosity of a temporary nature. For best performance, use this product within 15 months from date of manufacture.

## **Precautionary Information**

Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product. For additional health and safety information, call 1-800-364-3577

## **Automotive Disclaimer**

### **Select Automotive Applications:**

This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

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3M™ Industrial Adhesives and Tapes Division  
3M Center, St. Paul, MN 55144-1000  
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