

3M

Scotch-Seal™

Metal Sealant

2084

Technical Data

May, 2002

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.
- Can be used to bond and seal aluminum to glass; also adheres well to many other metals and woods.
- Scotch-Seal 2084, conforms to requirements of AAMA Specification 801.1 (Architectural Aluminum Manufacturers Association Specification title “Adhesive Type Sealant for Joints of Applied or Integral Fin.”)

Typical Physical Properties and Performance Characteristics

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

Color:	Aluminum
Viscosity: (approx.) Brookfield Viscometer:	7,000 - 22,50 cps RVF #6 sp. @ 20 rpm @ 80°F (26.7°C)
Solids Content: (by wt.) (approx.)	40 - 47%
Net Wt.: (approx.)	7.7 - 8.1 lbs./gal.
Flash Point: (c.c)	0°F (-18°C)
Coverage: (1/8" diam. wet bead)	1500 lineal ft./gal.
Solvent:	Acetone
Tack Free Time: (approx.)	5 minutes
Dry Time: (approx.)	24 hours
Gap Filling Capability:	1/16 inch
Adhesion, Canvas to aluminum 180° peel, pulled at 2"/minute:	25 lbs./inch width

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Application Equipment Suggestions

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 Teflon® are compatible.

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 3M™ Scotch-Grip™ Solvent No. 3.*

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 Scotch-Grip Solvent No. 3 or methyl ethyl ketone.*

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

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Storage and Handling

Storage: For optimum storage 3M™ Scotch-Seal™ Metal Sealant 2084 should be stored at 60-80°F (15-26°C). Higher temperatures reduce normal storage life. Lower temperatures cause increased viscosity of a temporary nature. Rotate stock on a “first in-first out” basis.

Shelf Life: When stored at recommended temperature in original, unopened container, this product has a shelf life of 15 months from the date 3M ships the product.

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Precautionary Information

Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product.

For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-362-3550 or visit www.3M.com/adhesives. Address correspondence to: 3M Engineered Adhesives Division, 3M Center, Building 220-7E-01, St. Paul, MN 55144-1000. Our fax number is 651-733-9175. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-809-750-3000. In Mexico, phone: 5-728-2180.

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ISO 9002

This Engineered Adhesives Division product was manufactured under a 3M quality system registered to ISO 9002 standards.

3M

Engineered Adhesives Division

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