

July, 2014

3M™ Scotch-Seal™ Metal Sealant 2084

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.



3M™ Scotch-Seal™ Metal Sealant 2084

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

Property	Values	Notes
Color	Aluminum	Colors may vary from nearly white to yellow/amber. Adhesive performance is not affected by color variation.
Net Weight	7.7 to 8.1 lb/gal	

Typical Mixed Physical Properties

Property	Values
Tack Free Time	5 min
Gap Fill	1/16 in

Typical Physical Properties

Property	Values		Notes	Test Condition
Solids Content by Weight	40 to 47 %			
Flash Point	0 °F	-18 °C	Closed Cup	
Solvent Resistance	Acetone			
Coverage	1500 lineal ft/gal		1/8 inch diameter wet bead	

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Typical Physical Properties (continued)

Property	Values		Notes	Test Condition
Viscosity	7,000-22,500 cP		Brookfield Viscometer, RVF #6 sp.	80°F(26.7°C)
Viscosity	500 to 2500		Brookfield Viscometer, RVF #6 sp. @ 4rpm	Room Temperature
Dry Time	1 day			

Typical Performance Characteristics

Property	Values		Substrate	Notes
180° Peel Adhesion	43.8 N/cm	400 oz/in	Canvas to Aluminum	pulled at 2in/minute

Handling/Application Information

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	—	—

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Handling/Application Information (continued)

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.

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.

Storage and Shelf Life

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.

When stored at recommended temperature in original, unopened container, this product has a shelf life of 15 months from date of manufacture.

Trademarks

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Pyles is a registered trademark of Pyles, Inc.

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References

Property	Values	Method
3m.com Product Page	https://www.3m.com/3M/en_US/company/us/all-3m-products/~//3M-Scotch-Seal-Metal-Sealant-2084?N=5002385+3293242302&rt=rudmil	ASTM D3652
Safety Data Sheet (SDS)	https://www.3m.com/3M/en_US/company/us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=2084in	ASTM D3652

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 or (651) 737-6501.

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Information

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