



Scotch-Seal™ Industrial Sealant 800

Technical Data

March 2018

Product Description

3M™ Scotch-Seal™ Industrial Sealant 800 is a reddish brown, brushable sealant that air dries to a flexible seal that resists water, oils and fuel and adheres to many metallic surfaces and has a useful temperature range of -65° to 200°F (-54 to 93°C).

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.

Base:	Nitrile
Solvent:	Methyl Ethyl Ketone, Methyl Isobutyl Ketone
Color:	Reddish brown
Net Weight: (approx.)	8.4 - 8.8 lbs./gal.
Flash Point:	+20°F / -6.7°C
Solids Content: (by wt. - approx.)	50 - 59%
Consistency:	Heavy syrup
Viscosity: (approx.) Brookfield Viscometer:	25,000 - 45,000 cps RVF #6 sp. @ 20 rpm @ 77°F (25°C)
Coverage: (per gallon)	1500 lineal feet of 1/8 inch diameter wet bead 375 lineal feet of 1/4 inch diameter wet bead
Tack Free Time: (approx.)	5 - 10 minutes
Dry Time: (approx.)	1 - 3 days

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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 – 5 to 1 ratio, double acting, ball type check valves, divorced design. Approximately 6 cubic in. per cycle with 3 in. air motor.

5 Gallon Pail Dispensing System:

Primer – Disc type follower plate.

55 Gallon Drum Dispensing System:

Primer – Single post elevator with disc type follower plate.

Flow Gun – Tip seal type.

Pressure Filling Caulking Guns – Same equipment as listed above.

Manual Caulking Gun Filling: Kenmar Model 4T caulking gun filler, Semco Model 330 Vaculoader, Graco Model 225-975 caulking gun filler.

Hose – Nylon lined hose, 500 psi working pressure.

Reference Information:

Material Temperature: 40°F (4°C) **Flow Gun:** 1/4 in. diameter Tip

Hose Assembly:	Material Pressure psi	Output Lb./Min.	Material Pressure psi	Output Lb./Min.
Ten Foot Length 3/4 I.D. Hose	270	4.0	270	4.0
Twenty Foot Length 3/4 I.D. Hose	360	4.0	270	2.3
Twenty Foot Length 3/4 I.D. Hose +				
Ten Foot Length 1/2 I.D. Hose	630	5.2	270	1.3
Twenty Foot Length 1/2 I.D. Hose	585	3.8	270	1.2
Ten Foot Length 1/2 I.D. Hose	450	4.7	270	1.6
Note: Material Pressure = Operating Air Pressure x Pump Ratio				

Note: The solvent in this material attacks most materials except nylon, polysulfide, or PTFE.

Handling/Application Information

Directions for Use

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

Application: Production dispensing is best achieved with pressure flow equipment. A minimum 5:1 ratio pump with follower plate is suitable. A hand caulking gun or brush may also be used.

Drying Time: Surface dries tack free in approximately 5 minutes after application. Complete drying, depending upon temperature and air movement, is obtained in approximately 1-3 days.

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

Coverage: Approximately 1500 lineal ft./gal. for a 1/8 in. diameter bead. Approximately 375 lineal ft./gal. for a 1/4 in. diameter bead.

***Note:** When using solvents, extinguish all ignition sources and be sure to follow the manufacturer's precautions and directions for use when handling such materials.

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Typical Performance Characteristics

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Tensile/Elongation: ASTM D412C.

Conditioning	(psi) Tensile/Elongation (%)
1 week at 77°F (25°C)/50% R.H.	100/1400
1 week at 160°F (71°C)	130/1200

After 500 hrs. exposure in an accelerated weathering unit (Weatherometer), sealant remained flexible and rubbery.

Storage

Store product at 60-80°F (16-27°C) for maximum storage life. Higher temperatures reduce normal storage life. Lower temperatures may cause increased viscosity of a temporary nature. Rotate stock on a “first in-first-out” basis.

Shelf Life

When stored in the original, unopened container at the storage conditions suggested this product has a shelf life of 15 months from date of manufacture.

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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 health and safety information, call 1-800-364-3577 or (651) 737-6501.

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.

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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ISO 9001

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

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