

March, 2015

3M™ Neoprene Rubber & Gasket Adhesive 2141

Product Features

- A light colored, high strength adhesive with a long tack range.
- Excellent water, oil and grease resistance.
- Bonds neoprene, natural, reclaim SB-R and butyl rubber to most substrates.



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 Physical Properties

Property	Values		Notes	Test Condition
Color	Yellow			
Solids Content by Weight	28 to 32 %			
Flash Point	-26 °C	-14 °F	TCC	
Solvent	Petroleum Distillate, Toluene, Acetone and n-Hexane			
Viscosity	900 to 1500 cP		Brookfield Viscometer RVF #2 spindle @ 20 rpm	80°F(27°C)

Typical Uncured Physical Properties

Property	Values
Base	Polychloroprene
Net Weight	7 to 7.4 lb/gal

Typical Performance Characteristics

180° Peel Adhesion	Dwell/Cure Time	Test Condition
96 oz/in	1 day @ Room Temperature	Room Temperature
160 oz/in	3 days @ Room Temperature	Room Temperature
384 oz/in	5 days @ Room Temperature	Room Temperature
512 oz/in	7 days @ Room Temperature	Room Temperature
32 oz/in	2 wk @ Room Temperature	Room Temperature
30 oz/in	3 wk @ Room Temperature	Room Temperature
224 oz/in	After 3 wk @ Room Temperature	-30°F(-34°C)
384 oz/in	After 3 wk @ Room Temperature	150°F(66°C)
352 oz/in	After 3 wk @ Room Temperature	180°F(82°C)

Property: 180° Peel Adhesion
Substrate: Canvas to Steel

Typical Performance Characteristics (continued)

Property	Values	Dwell/Cure Time	Test Condition	Substrate	Substrate Notes
Overlap Shear Strength	377 lb/in ²	3 wk @ Room Temperature	Room Temperature	Birch to Birch	1/8in
Overlap Shear Strength	68 lb/in ²	3 wk @ Room Temperature	180°F(82°C)	Birch to Birch	1/8in

Handling/Application Information**Application Equipment**

Appropriate application equipment enhances 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.

1. Pumping:

A. 5 gallon or less dispensing system: Use a pressure pot rated for 100 psi operating pressure.

B. 55 gallon dispensing system: Use a 2:1 ratio divorced design double acting ball check type pump, bung mounted. Packings and glands in contact with the adhesive should be PTFE.

2. Hoses: All material hoses should be nylon lined.

3. Brushes: Brushes designed to be used with oil based paints may be used.

Directions for Use

1. Surface Preparation: Surfaces must be clean, dry and dust free. Wiping with a solvent such as methyl ethyl ketone (MEK) will aid in removing oil and dirt.*

2. Application Temperature: For best results, the temperature of the adhesive and the surfaces being bonded should be at least 65°F (18°C).

3. Application: Stir or agitate well before using.

Porous Surface(s): Apply a uniform generous brush coat of adhesive to one or both surfaces. Highest strengths are obtained when both surfaces are coated. Highly absorbent materials may require two coats.

Non-Porous Surface(s): Brush an even coat of adhesive on both surfaces. Press surfaces together firmly to ensure contact.

4. Drying Time: When applying adhesive to only one surface, the bond must be made immediately, while the adhesive is wet. When applying adhesive to both surfaces, allow the adhesive to dry until tacky, but does not transfer to knuckle when touched (typically 5-10 minutes, depending on temperature, humidity, etc.).

5. Bonding: After drying, you have up to 15 minutes to make the bond. Press surfaces together firmly to ensure contact.

6. Cleanup: Excess adhesive may be removed with a solvent such as 3M™ Scotch- Weld™ Solvent No. 2, methyl ethyl ketone (MEK), or 3M™ Citrus Base Cleaner.*

*Note: When using solvents, extinguish all ignition sources and follow the manufacturer's precautions and directions for use.

Storage and Shelf Life

Store product at 60-80°F (15-26°C) for maximum storage life. 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 the recommended conditions in original, unopened containers, this product has a shelf life of 30 months from date of manufacture.

Trademarks

3M is a trademark of 3M Company.

References**Safety Data Sheet (SDS)**

https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=2141

ISO Statement

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

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, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

Product Selection and 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. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer

Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability

Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

