

Technical Data Sheet

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

Typical Uncured Physical Properties


Property	Values	Additional Information
Base	Polychloroprene	


Net Weight 7 to 7.4 lb/gal

Typical Performance Characteristics


Property	Values	Additional Information
180° Peel Adhesion	96 oz/in	View 
Dwell/Cure Time: 24.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Canvas to Steel		
180° Peel Adhesion	160 oz/in	View 
Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Canvas to Steel		
180° Peel Adhesion	384 oz/in	View 
Dwell/Cure Time: 120.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Canvas to Steel		
180° Peel Adhesion	512 oz/in	View 
Dwell/Cure Time: 168.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Canvas to Steel		
180° Peel Adhesion	32 oz/in	View 
Dwell/Cure Time: 2.0 Dwell Time Units: week Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Canvas to Steel		
180° Peel Adhesion	30 oz/in	View 
Dwell/Cure Time: 3.0 Dwell Time Units: week Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Canvas to Steel		
180° Peel Adhesion	224 oz/in	View 
Dwell/Cure Time: 3.0 Dwell Time Units: week		

Temp C: -34C
Temp F: -29F
Environmental Condition: 50%RH
Substrate: Canvas to Steel

180° Peel Adhesion	384 oz/in	View 
Dwell/Cure Time: 3.0 Dwell Time Units: week Temp C: 66C Temp F: 150F Environmental Condition: 50%RH Substrate: Canvas to Steel		

180° Peel Adhesion	352 oz/in	View 
Dwell/Cure Time: 3.0 Dwell Time Units: week Temp C: 82C Temp F: 180F Environmental Condition: 50%RH Substrate: Canvas to Steel		

Overlap Shear Strength	377 lb/in ²	View 
Dwell/Cure Time: 3.0 Dwell Time Units: week Temp C: 23C Temp F: 72F Test Condition: Room Temperature Substrate: Birch to Birch Notes: 1/8in thick substrates		

Overlap Shear Strength	68 lb/in ²	View 
Dwell/Cure Time: 3.0 Dwell Time Units: week Temp C: 23C Temp F: 72F Test Condition: 180°F(82°C) Substrate: Birch to Birch Notes: 1/8in thick substrates		

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.

Automotive Disclaimer

Automotive Applications: This product is an industrial product and has not been designed or tested for use in certain automotive applications, including, but not limited to, automotive electric powertrain battery or high voltage applications. This product does not fully adhere to typical automotive design or quality system requirements, such as IATF 16949 or VDA 6.3. This product may not be manufactured in an IATF certified facility and may not meet a Ppk of 1.33 for all properties. The product may not undergo an automotive production part approval process (PPAP). Customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer’s automotive application and for conducting incoming inspections before use of the product. Failure to do so may result in injury, death, and/or harm to property. No written or verbal statement, report, data or recommendation by 3M related to automotive use of the product shall have any force or effect unless in an agreement signed by the Technical Director of 3M’s Automotive Division. Customer assumes all responsibility and risk if customer chooses to use this product in an automotive electric powertrain battery or high voltage application, and 3M will not be liable for any loss or damage arising from or related to the 3M product or customer’s use of the product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity or recall costs), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability. In no event shall 3M be liable for any damages in excess of the purchase price paid for the product.

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Bottom Matter

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Trademarks

3M is a trademark of 3M Company.

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.

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b40069406/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company/us/SDScepth&qs=2141

Family Group

Link Tags:

• 2141

Products

Solids Content by Weight

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-

Information

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