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English-EU

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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 Uncured Physical Properties

Attribute Name	Value
Base	Polychloroprene
Net Weight	0.84 — 0.89 kg/L

Typical Physical Properties

Attribute Name	Temperature	Value
Color		Yellow
Solids Content by Weight		28 — 32 %
Carrier Solvent		Petroleum Distillate, Toluene, Acetone and n-Hexane
Flash Point		-17 °C [1]
Viscosity	27 °C	900 — 1500 cP [2]

[1] TCC

[2] Brookfield Viscometer RVF #2 spindle @ 20 rpm

Typical Performance Characteristics

180° Peel Adhesion

Substrate: Canvas to Steel

Dwell Time	Temperature	Value
24 h	23 °C	11 N/cm
72 h	23 °C	18 N/cm
120 h	23 °C	42 N/cm
168 h	23 °C	56 N/cm
2 week	23 °C	3.5 N/cm
3 week	23 °C	3.3 N/cm
3 week	-34 °C	25 N/cm
3 week	66 °C	42 N/cm
3 week	82 °C	39 N/cm

Overlap Shear Strength

Substrate: Birch to Birch
Temperature: 23 °C
Dwell Time: 3 week

Test Condition	Value
	2.6 MPa [1]
82°C (180 °F)	0.47 MPa [1]

[1] 3 mm (1/8 in) thick substrates

Handling/Application Information

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.

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.

Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original, unopened packaging, out of direct sunlight. Lower temperatures cause increased viscosity of a temporary nature. For best performance, use this product within 30 months from date of manufacture.

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

Automotive Disclaimer

Select Automotive Applications:
This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

Information

Precautionary Information: Refer to product label and Material Safety Data Sheet for health and safety information before using the product. For information, please contact your local 3M Office. You can click or scan QR code to see contact detail or visit www.3M.com Important Information: All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method or application. All questions of liability relating to this product are governed by the terms of the sale subject, where applicable, to the prevailing law. Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.

ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

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