



# 3M™ Neoprene Contact Adhesive 5

Last Revision Date: February, 2015

## Product Description

3M™ Neoprene Contact Adhesive 5 is a sprayable contact adhesive which may be used to bond many high-pressure plastic laminates to wood, particle- board, metal and other surfaces.

## Product Features

- Sprayable.
- Fast drying.
- 60 minute bonding range.
- Excellent resistance to plastic flow (creep).

## 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	18 to 21 %	

Color	Green, Light Yellow
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*Note	When bonding wood veneers, success is dependent on many variables such as environmental conditions, bonding process, type of base material, type of veneer, adhesive type and top coat finishing systems to name a few. It is the user’s responsibility to thoroughly test any adhesive for its suitability in bonding wood veneers. It is also recommended to follow the veneer manufacturers recommendation and industry guidelines.
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Flash Point	-25 °C (-14 °F)	View 
Notes: TCC		




Flash Point	-14 °F	View 
Notes: TCC		









Solvent Resistance	Petroleum distillate, acetone, toluene and n-hexane	
Coverage	233 sq ft/gal	View 
Notes: @ 2.5 g/ft² dry wt.		
Viscosity	175 to 350 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	6.4 to 6.8 lb/gal	

Typical Performance Characteristics

Property	Values	Additional Information
Overlap Shear Strength	7680 oz/in	View 
Test Method: ASTM D1002		
Dwell/Cure Time: 2 Dwell Time Units: week Temp C: 23C Temp F: 72F Test Condition: Room Temperature Substrate: Birch to Birch		
Overlap Shear Strength	7712 oz/in	View 
Test Method: ASTM D1002		
Dwell/Cure Time: 3 Dwell Time Units: week Temp C: 23C Temp F: 72F Test Condition: Room Temperature Substrate: Birch to Birch		
Overlap Shear Strength	16960 oz/in	View 
Test Method: ASTM D1002		
Dwell/Cure Time: 3 Dwell Time Units: week Temp C: 23C Temp F: 72F Test Condition: -30°F(-34°C) Substrate: Birch to Birch		

Overlap Shear Strength	1040 oz/in	View 
Test Method: ASTM D1002		
Dwell/Cure Time: 3 Dwell Time Units: week Temp C: 23C Temp F: 72F Test Condition: 180°F(82°C) Substrate: Birch to Birch		
Overlap Shear Strength	608 oz/in	View 
Test Method: ASTM D1002		
Dwell/Cure Time: 3 Dwell Time Units: week Temp C: 23C Temp F: 72F Test Condition: 225°F(107°C) Substrate: Birch to Birch		
180° Peel Adhesion	160 oz/in	View 
Dwell/Cure Time: 24 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Canvas to Steel		
180° Peel Adhesion	192 oz/in	View 
Dwell/Cure Time: 72 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Canvas to Steel		
180° Peel Adhesion	224 oz/in	View 
Dwell/Cure Time: 120 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Canvas to Steel		
180° Peel Adhesion	288 oz/in	View 
Dwell/Cure Time: 168 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Canvas to Steel		
180° Peel Adhesion	288 oz/in	View 
Dwell/Cure Time: 2 Dwell Time Units: week Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Canvas to Steel		
180° Peel Adhesion	304 oz/in	View 

Dwell/Cure Time: 3  
Dwell Time Units: week  
Temp C: 23C  
Temp F: 72F  
Environmental Condition: 50%RH  
Substrate: Canvas to Steel

180° Peel Adhesion	264 oz/in	View 
Dwell/Cure Time: 3 Dwell Time Units: week Temp C: -34C Temp F: -29F Environmental Condition: 50%RH Substrate: Canvas to Steel		
180° Peel Adhesion	112 oz/in	View 
Dwell/Cure Time: 3 Dwell Time Units: week Temp C: 82C Temp F: 180F Environmental Condition: 50%RH Substrate: Canvas to Steel		

### Storage and Shelf Life

Best storage temperature is 60-80°F (16-27°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 the recommended temperature in the original, unopened container, this product has a shelf life of 30 months from date of manufacture.

### Trademarks

3M is a trademark of 3M Company.

### Handling/Application Information

#### Application Equipment

Note: 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 2:1 divorced design pump is suggested. Packings and glands, in contact with the adhesive, should be PTFE.
2. Pressure Pot: Any stainless steel or galvanized pressure pot with A.S.M.E. rating is acceptable to use with 3M™ Neoprene Contact Adhesive 5.
3. Spray Equipment:

[Image 73]

Note: These adhesives are not recommended for Airless Spraying.

\*3 H.P. Compressor for intermittent use. 5 H.P. Compressor for continuous use.

\*\*To Measure Fluid Flow: Pressurize fluid source only; pull trigger, flow material into measuring device for 60 seconds, increase or decrease fluid source pressure to obtain desired fluid flow.

4. Hoses: All material hoses should be nylon or PVA lined.
5. Brush/Roller: Typical brushes/rollers designed for oil-based paint may be used.

#### Directions for Use

#### Working Temperature

1. The temperature of the adhesive and surfaces to be bonded should be at 65°F (18°C) or above.
2. Warm the can of adhesive by placing in a warm room, not in stove, oven or other possible ignition source.

- 3. If the room must be warmed, turn off the heater before opening container.
- 4. Leave heater off until all vapors are gone.

Application

- 1. Stir thoroughly before using.
- 2. Apply adhesive generously in a uniform film on both surfaces with either a fiber or animal hair brush, or pour and spread with paint roller (solvent resistant texturing type).
- 3. Porous surfaces may require 2 coats of adhesive.
- 4. A glossy film when completely dry indicates adequate adhesive.
- 5. Dull spots after drying indicate not enough adhesive; these spots must have another coat.

Assembly

- 1. Allow to dry until adhesive is no longer tacky (5-10 minutes).
- 2. Position surfaces carefully before assembly.
- 3. No adjustment is possible after contact.
- 4. Spacers such as dowels or strips of laminate, may be used to prevent premature adhesive/adhesive contact and bonding.
- 5. Slide out the spacers and apply uniform pressure, working toward the edges.
- 6. A 3 in roller used with maximum body pressure should be used to help ensure adequate contact and bonding, especially on the edges.
- 7. Bonded assemblies can be machined, trimmed or finished immediately after bonding.

Drying Time

- 1. Drying time depends on temperature, humidity, air movement and porosity of materials bonded.

Cleanup

- 1. Excess adhesive may be removed with a solvent such as methyl ethyl ketone.\*

\*When using solvents, extinguish all ignition sources, including pilot lights, and follow manufacturer’s precautions and directions for use.

Surface Preparation

Note: Read and follow precautions before using this product.

Surface Preparation

- 1. For best results all surfaces to be bonded should be dry and free from dirt, dust, oil, loose paint, wax, grease, etc.
- 2. Oil, grease and other contaminants can be removed by wiping with a solvent such as methyl ethyl ketone.\*
- 3. If used for decorative laminate, laminate should have reached moisture equilibrium for the shop conditions.

References

Property	Values
3m.com Product Page	<a href="https://www.3m.com/3M/en_US/company-us/all-3m-products/~//3M-Neoprene-Contact-Adhesive-5X/?N=5002385+3293241724&amp;rt=rud">https://www.3m.com/3M/en_US/company-us/all-3m-products/~//3M-Neoprene-Contact-Adhesive-5X/?N=5002385+3293241724&amp;rt=rud</a>
Safety Data Sheet SDS	<a href="https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=5">https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=5</a>

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.

Information

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