

Technical data sheet



Product: 1077

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: KLEBSTOFF

Article group: SPRAY

Download: 25.08.2026

3M™ FASTBOND 1077 SPRAY ADHESIVE

This data sheet was provided to you by Tewipack Uhl GmbH. The company tewipack Uhl GmbH assumes no responsibility for the topicality and the Accuracy of the information contained. The properties of the products can vary due to various influences such as composition and condition of the Substrate, impurities in or on the substrate, temperature and humidity at the Change storage and environmental conditions during use. Using this product in combination with other material, the customer is responsible for to check through our own tests whether the product is suitable for the planned combination and whether this combination delivers the expected results

Tewipack Uhl GmbH
Industriestraße 15
D-75382 Althengstett

Telephone:
+49(0)7051/9297-0
Fax:
+49(0)7051/9297-99

E-Mail:
info@tewipack.de
Website:
www.tewipack.de

Managing director:
Alexander Uhl,
Michael Uhl
HRB 330424
Amtsgericht
Stuttgart

Bank details:
Sparkasse
Sindelfingen
Pforzheim
Calw
BLZ 666 500
85
Konto 17 787

Commerzbank
Sindelfingen
BLZ 603 400 71
Konto 8 001 166

Vereinigte
Volksbank AG
Böblingen
BLZ 603 900 00
Konto 80 089
003

Postbank
Stuttgart
BLZ 600 100
70
Konto 146
294 708



Technical Data Sheet

Preliminary 3M™ Fastbond™ Water-Base Multipurpose Adhesive 1077, Low VOC



[Additional Info](#)



[Regulatory
Info/SDS](#)

Product Description

3M™ Fastbond™ Water-Based Multipurpose Adhesive 1077, Low VOC is a pressure-sensitive adhesive designed for lightweight substrate bonding in general industrial applications. Offering a medium-strength initial grab for quick bond, this water-based adhesive helps ensure ease of use and reliable performance.

Product Features

- Water-based
- Solventless air propelled system, eliminates the need for traditional propellants
- Less than 1 % VOC by weight
- One or two sided bonding

Technical Information Note

3M will continue to test samples from additional manufacturing lots and issue a new Technical Data Sheet if the results change. The technical information and data should be considered representative or typical only and should not be used for specification purposes. The following data is taken from tests conducted on a limited number of production runs.

Typical Uncured Physical Properties

Attribute Name	Temperature	Value
Density		1.1 g/mL (9.17 lb/gal)
Base Viscosity	25 °C (77 °F)	40-100 mPa.s ¹

¹ Brookfield Viscometer spindle #2 at 50 rpm

Typical Physical Properties

Attribute Name	Value
Color	Milky White (wet), Clear (dry)
Solids Content by Weight	55-60 %
Base	synthetic elastomer
Dry Time	15 min ¹
Bonding Range	15-45 min
Spray Pattern	Mist
Flammable Solvent	No
Flammable Propellant	No
VOC	<1 %
pH	6-7
Coverage	4.7 m ² (51.1 ft ²) ²

¹ Dry time will depend on ambient temperature, humidity and coverage applied.

² @ 27 g/m² (2.5 g/ft²) dry

Typical Performance Characteristics

Attribute Name	Value
Shear Adhesion Failure Test - SAFT	54 °C (130 °F) ¹

¹ SAFT Shear Adhesion Failure Test with birch plywood, 25 mm (1 in) overlap, 100 g used, temperature start at 32 °C (90 °F) and ramped 5.5 °C (10 °F) every 10 min. until complete failure.

Handling/Application Information

Directions for Use

The actuators are not inserted during the manufacturing process to avoid accidental dispensing of the adhesive that may dry and clog the valve, ensuring that the customer does not experience issues when dispensing the adhesive. Depending on your usage criteria, you may only need one actuator per can. We are providing an extra actuator for customers who may not use the adhesive frequently.

To use the can do the following:

1. Remove the cap, note the actuators under the cap.
2. Peel the seal off the top of the can. Do not puncture through the seal, pieces of the seal could clog the valve.
3. Pointing the actuator away from the user, or other people in the area, gently insert the stem into the valve. Gently rotate the actuator during insertion, if needed.
4. Begin spraying.

Work Stoppage

For short work stoppages, covering the spray tip is unnecessary. Adhesive may need to be wiped away from the orifice on the actuator. If the stoppage is more than 10 minutes, cover the spray tip with tape and replace the cap. If unused for an extended period, adhesive may dry, requiring the installation of the second actuator to resume spraying.

Application Guidelines

Directions for Use: Bonds can be made by applying 3M™ FastBond™ 1077 to one or both of the surfaces to be bonded. Single surface application may require heavier coverage, and pressure to activate the adhesive. User should evaluate the adhesive to determine which method(s) is suitable for their use. Bonds to porous substrates can generally be made without significant drying, typically less than 15 minutes depending on environmental factors and adhesive coverage. Pressure must be applied to activate the adhesive. Non-porous substrates need to dry until adhesive does not transfer when touched with a gloved hand.

Apply a uniform coat of adhesive to one of the surfaces to be bonded. Very porous material may require more than one coat. (Allow adhesive to dry completely between coats).

Temperature: Maintain temperature between 16-27 °C (60-80 °F) for adhesive and substrates to be bonded

Coverage: Coverage is dependent upon porosity of the substrate and the method by which the adhesive is applied. Apply the adhesive in a uniform pattern at a coverage rate between 21-32 g/m² (2.0 – 3.0 dry g/ft²). Additional adhesive may be required for heavier materials, rough surfaces and porous substrates.

Cleanup: Wet adhesive may be removed using water or soapy water. For dry adhesive removal, use 3M™ Citrus Base Adhesive Remover.

Disposal: Refer to SDS for Disposal Considerations. Always dispose of content/container in accordance with the local/regional/national/international regulations.

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 or higher temperatures may affect the spray pattern and performance of the product.

For best performance, use this product within 18 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

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.

Disclaimer: 3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use. Unless specifically stated otherwise on the applicable product packaging or literature, these products are not intended, labeled, or packaged for sale to or use by consumers (e.g., for home, personal, primary or secondary school, recreational/sporting, or other uses not described in the applicable product packaging or literature), and must be selected and used in compliance with applicable health and safety regulations and standards (e.g., U.S. OSHA, ANSI), as well as all product literature, user instructions, warnings, and limitations, and the user must take any action required under any recall, field action or other product use notice. Misuse of 3M industrial and occupational products may result in injury, sickness, or death. For help with product selection and use, consult your on-site safety professional, industrial hygienist, or other subject matter expert. For additional product information, visit www.3M.com.

3M™ Industrial Adhesives and Tapes Division
3M Center, St. Paul, MN 55144-1000
3M.com/iatd

3M, Fastbond and Scotch-Weld are trademarks of 3M.
©3M 2026 (5/26)