SNAPSHOOT
ENGINEERED FOR A SAFER TOMORROW

# 현장을 이해하고, 필요한 솔루션을 연결합니다.

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제품 제안부터 공급·시공·설치·교육까지




COMPANY INFORMATION

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TECHNICAL DOCUMENTS

## 인증서 · 데이터시트 · 기술자료

제품의 규격과 성능, 인증 및 적용 조건을 확인하기 위한 자료입니다.

ABOUT SNAPSHOOT

### 제품 공급을 넘어, 현장에 맞는 해결책으로

스냅슛은 산업현장의 작업 환경과 요구 조건을 바탕으로
적합한 제품과 시스템을 제안합니다. 현장 실사를 통해 설치 조건을 확인하고,
공급부터 시공·설치 및 사용 교육까지 필요한 과정을 함께합니다.

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English-US

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# Technical Data Sheet

## 3M™ Fastbond™ Foam Adhesive 100NF Neutral

Product Details

Regulatory Info/SDS

## Product Description

3M™ Fastbond™ Foam Adhesive 100 is a one-part, water-dispersed, fast setting adhesive. This neoprene-based product bonds many porous substrates to porous or non-porous substrates with minimal dry time. Adheres to many types of flexible polyurethane foam, latex foam fabric, polyester fiberfill, wood, plywood, particleboard and many plastic and metal surfaces.

## Product Features

• Water-dispersed so is non-flammable in the wet state.
• High solids for high coverage.
• One component to simplify dispensing.
• Neoprene-based for high heat resistance.
• Low pressure sprayable to reduce misting and overspray.
• Non-dimpling for soft bondlines.
• Designed to be applied between two substrates. Application to substrates that results in direct exposure of the adhesive to light may result in eventual discoloration of the exposed adhesive. Direct exposure can be controlled by proper spray application. Adhesive may soak through very thin fabrics.
• Not recommended for exterior bare metal surfaces unless metal surfaces are completely dried by force drying and protected from moisture.
• Certified to GREENGUARD® Product Emission Standard For Children and Schools(SM) for low emitting interior building materials:

° Addresses or Contributes to LEED® EQ Credit 4.1: Low Emitting Materials: Adhesive and Sealants

## 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 |
|---|---|
| Density | 9 — 9.4 lb/gal |

## Typical Mixed Physical Properties

| Attribute Name | Value |
|---|---|
| Time to Handling Strength | 15 s [1] |

[1] Min time between bond creation and ability to support a 34 kPa (5 psi) tensile load. Open and set times determined by RT environment. Higher temps will lengthen open and set times, while lower temperatures will shorten open time and set time.

## Typical Physical Properties

| Attribute Name | Value |
|---|---|
| Color | White (semi-transparent when dry) |
| Solids Content by Weight | 45 — 49 % |
| Base Polymer | Polychloroprene (neoprene) |
| pH | 8.4 — 9 |
| Coverage | 1,000 ft²/gal [1] |
| Bonding Range | 20 min |
| Viscosity | 10 — 40 cP [2] |

[1] 2 grms/sq ft dry wt

[2] Brookfield RVF #1 sp @ 20 rpm

## Typical Performance Characteristics

### 180° Peel Adhesion

Temperature: 25 °C (77 °F)

| Substrate | Value |
|---|---|
| ABS | 32 oz/in [1] |
| Aluminum | 18 oz/in [1] |
| Cold Rolled Steel | 18 oz/in [1] |
| Galvanized Steel | 18 oz/in [1] |
| High Density Polyethylene (HDPE) | 24 oz/in [1] |
| Polypropylene (PP) | 14 oz/in [1] |
| Polyvinyl chloride (PVC) | 30 oz/in [1] |

[1] Peel bonds of cotton duck were tested at a peel angle of 180° @ 51 mm/min (2 in/min) separation rate @RT.

## Typical Environmental Characteristics

### Temperature Resistance

After air drying 24 hours, 4-inch cube knife edge foam bonds made with 3M™ Fastbond™ Foam Adhesive 100 on 1.2 lb./cu. ft. density urethane foam specimens withstood operating temperatures at 230°F (110°C) for 24 hours without showing any signs of failure along the bonded seams. The adhesive exhibited no indication of attacking or deteriorating the foam and the bondlines remained strong and flexible.

## Handling/Application Information

### Directions for Use

**Note:**When using 3M™ Fastbond™ Foam Adhesive 100, it is required that at least one of each pair of substrates to be bonded be porous or water permeable.
1. Surface Preparation: Use only on clean, dry surfaces. Contamination of surfaces with oil, grease or release agents will prevent good, strong bonds.
2. Application: Adhesive does not require agitation before use. Adjust the spray equipment to give a fine, mist-like spray pattern. Spray a uniform, light coat of adhesive to both surfaces holding spray applicator 10-15 inches from surface.
3. Coverage: Coverage will depend on foam density, surface porosity of substrates, and strength of adhesive bond required. Typically one gallon of adhesive will cover up to 1000 square feet of substrate surface at a coating weight of approximately 2 dry grams of adhesive/sqft In all cases, user evaluation will be required to determine the optimum coverage levels.
**Note:**Application of adhesive at coating weights above 2 dry grams/sqft or using a coarse spray pattern may result in longer activation times.
4. Activation Time: The adhesive activates sufficiently to permit making foam/foam bonds within 15 seconds after application. Bonds of foam or fabric to smooth, nonporous surfaces such as plastic or metal will require longer activation times. Bonds may be made up to 20 minutes after application depending on ambient temperature and humidity conditions. See Note above.
5. Assembly and bonding: For foam bonding and foam fabrication, pressure sufficient to compress the foam should be applied to the bond line by manual or mechanical methods. Bond the adhesive coated surfaces with sufficient pressure to ensure good contact across the entire adhesive bond line.
6. Cleanup: Wet adhesive may be removed with water containing a small amount of detergent.* Dry adhesive may be removed with a combination of 3M™ Citrus Base Cleaner or equivalent and mechanical systems such as wire brushing. Dry adhesive cannot be removed from porous surfaces such as foams or fabrics. Flush the adhesive wetted surfaces of spray equipment with water containing a small amount of detergent.* Follow with a flush of clean water.
*Cleaning Solution: One pint of detergent to five gallons of water.
****Note:**When using solvents, extinguish all ignition sources, including pilot lights, and follow the manufacturer's precautions and directions for use.

### Application Equipment

**Note:**Appropriate application equipment can enhance 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.

| Low to Medium Volume Applications | | | | |
|---|---|---|---|---|
| Equipment Type | Equipment Example* | Air Cap | Fluid Tip | Atomizing Air Pressure** |
| Siphon Gun | Critter Siphon Gun #118 | N/A | N/A | 10 psi |
| Gravity Feed Gun | Binks Model 95G | 66SD | 65 SS (.059") | 6 psi |
| | Binks M1-G | 93P | 94 (.055") | 10 psi |

| Medium to High Volume Applications | | | | |
|---|---|---|---|---|
| Equipment Type | Equipment Example* | Air Cap | Fluid Tip*** | Atomizing Air Pressure** |
| Pressure Fed Hand Held Spray Guns | Binks 2001 SS | 63P | 63 SS (.028") | 10 psi |
| | Binks 95 | 63P | 63 SS (.028") | 10 psi |
| | Binks Cub SL | 25 | 25 T (.025") | 10 psi |

*Systems other than those listed can be used with 3M™ Fastbond™ Foam Adhesive 100. Existing spray equipment can also be adapted. Fluid hoses used previously with solvent-based adhesive or cleaning compounds must be replaced with new hose. Be sure to follow the equipment manufacturer's precautions, directions for use, and recommendations for such equipment. For additional information, contact your local representative.
**Starting air pressure on regulator. Adjust up or down based on application requirements.
*** Also available are 2 piece fluid tips as replacements fluid tips. These 2 piece tips allow for easier cleaning with less chance of adhesive contamination of the air passages in the spray gun.

Pressure Pots
Stainless steel pressure pots recommended. Non-stainless may be used with plastic liners if dip tube and fittings are changed to plastic or stainless steel.

Pumping Equipment

1 inch plastic diaphragm pump with PTFE checks and diaphragms. All pumps should be short stroked for pump longevity. For additional information, contact your local representative.

Filter (pump output)
Graco model 12 (stainless steel) with filter bag #521-264 or equivalent.

Hoses
All fluid hoses should be nylon or polyester lined. Hose fittings should be stainless steel or plastic. The typical fluid hose length @ 1/4 inch i.d. should be 15 to 25 ft. Use of larger fluid hose i.d. or lengths less than 15 ft. will result in loss of fluid pressure control. Use of smaller fluid hose I.D. lengths greater than 25 ft. can result in product coagulation in the line.

**Note:**Do not use fluid lines that have been previously used with solvent. Do not use air operated piston pumps with these products.

## Storage and Shelf Life

Store under normal conditions of 4° to 32°C (40° to 90°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. Product will become unusable with prolonged storage under 4°C (40°F). Protect from freezing. 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

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## ISO Statement

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

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