SNAPSHOOT
ENGINEERED FOR A SAFER TOMORROW

현장을 이해하고, 필요한 솔루션을 연결합니다.

산업안전 · 추락방지 시스템
산업용 소재 · 건축자재
제품 제안부터 공급·시공·설치·교육까지



COMPANY INFORMATION

스냅슛 (SNAPSHOOT)

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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.

추락방지 시스템

안전대부착설비 · 수평·수직 라이프라인
레일 시스템 · 리지드 포스트

밀폐공간 진입·구조 솔루션

데빗암 · 삼각대 · 구조용 윈치
윈치 안전블록 · 구조장비

산업안전 보호구

전신형 안전대 · 랜야드 · 안전블록
작업 환경에 맞춘 개인보호구

산업용 소재·건축자재

산업용 테이프 · 접착제 · 기능성 소재
구조용 스크류 · 목조건축 자재

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홈페이지 바로가기 →
문서 라이브러리 바로가기 →
시공사례 바로가기 →
문의하기 →

본 페이지는 스냅슛의 자료 제공 안내용 표지입니다. 첨부된 인증서 및 기술자료의 발행 주체, 인증 대상과 적용 범위는 해당 원문을 기준으로 확인해 주세요.



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English-US

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Technical Data Sheet

3M™ Fastbond™ Industrial Adhesive 4213-NF

Regulatory Info/SDS

Product Description

3M™ Fastbond™ Industrial Adhesive 4213-NF is a white, water dispersed adhesive for bonding many fabrics, supported vinyl, wood, leather and most porous materials. Exhibits outstanding clarity when dry. Neither prone to discolor with age nor stain substrates. Note: Not recommended for exterior applications.

Product Features

- Water dispersed
- Brush, roll or flow apply

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
Net Weight	9 lb/gal
Base	Synthetic Resin

Typical Physical Properties

Attribute Name	Temperature	Value
Color		White (Wet), Clear (Dry)
Solids Content by Weight		54 — 60 %
Solvent Resistance		Water
Coverage		760 ft²/gal [1]
Viscosity	27 °C (80 °F)	2500 — 5000 cP [2]

[1] 1 mil dry film

[2] Brookfield Viscometer RVF #4 sp. @ 20 rpm

Typical Performance Characteristics

180° Peel Adhesion

Dwell Time	Temperature	Substrate	Value
24 h	23 °C (73 °F)	Canvas to Steel	240 oz/in
48 h	23 °C (73 °F)	Supported Vinyl to Wood	128 — 240 oz/in
72 h	23 °C (73 °F)	Canvas to Steel	384 oz/in
120 h	23 °C (73 °F)	Canvas to Steel	480 oz/in
168 h	23 °C (73 °F)	Canvas to Steel	560 oz/in
2 week	23 °C (73 °F)	Canvas to Steel	560 oz/in
3 week	23 °C (73 °F)	Canvas to Steel	432 oz/in
3 week	-34 °C (-29 °F)	Canvas to Steel	240 oz/in
3 week	66 °C (150 °F)	Canvas to Steel	320 oz/in
3 week	82 °C (180 °F)	Canvas to Steel	224 oz/in

Overlap Shear Strength

Temperature: 23 °C (73 °F)

Dwell Time	Test Condition	Substrate	Value
3 week		Birch to Birch	488 lb/in² [1]
3 week	-34 °C (-30 °F)	Birch to Birch	744 lb/in² [1]
3 week	66 °C (150 °F)	Birch to Birch	180 lb/in² [1]
3 week	82°C (180 °F)	Birch to Birch	136 lb/in² [1]
3 week	93 °C (200 °F)	Birch to Birch	87 lb/in² [1]
3 week	107 °C (225 °F)	Birch to Birch	78 lb/in² [1]
		Wood	500 lb/in²

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

Handling/Application Information

Directions for Use

• Surface Preparation: Surfaces must be free of dust, dirt, grease, oil, mold release materials and other contaminants.
• Application Temperature: For best results, the temperature of the adhesive and the surfaces being bonded should be at least 65°F (18°C).
• Application: Porous surfaces or porous surface to non-porous surface: Brush, roll or flow a uniform coat of adhesive to both surfaces. Not recommended for use on two non-porous surfaces.
• Bonding: Join within 5 minutes, clamp or apply moderate pressure.
• Drying Time: Allow to dry for at least 30-45 minutes before handling.
• Cleanup: Wet adhesive may be removed with warm water.

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.
• Brushes and rollers: Brushes and rollers designed for use with latex paint may be used. Keep brushes and rollers wet between uses by wrapping in plastic wrap or aluminum foil.

PRODUCTION TYPE SPRAY EQUIPMENT 2:1 PUMP					
Spray Gun	Air Cap	Fluid Tip	Air Pressure	Approximate Air Requirement*	Fluid Flow**
DeVilbiss JGA, MBC or AGB	770	FX	80-100 psi	19 CFM	6-8 fl. oz./min.
Binks No. 62, No. 18 or No. 61	63PH	63B	80-100 psi	22 CFM	6-8 fl. oz./min.
LOW VOLUME SPRAY EQUIPMENT					
DeVilbiss JGA	30	FX	75 psi	14 CFM	4 fl. oz./min.
Binks No. 18 or 62	65P	63B	75 psi	14 CFM	4 fl. oz./min.

Note: This adhesive is not recommended for Airless Spraying.

*3 H.P. Compressor for intermittent use. (2 H.P. for low volume)
5 H.P. Compressor for continuous use. (3 H.P. for low volume)

**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.

All material hoses should be nylon or PVA lined. Packings and glands in contact with the adhesive should be made of PTFE.

Certifications/Standards

Certifications

Toxic Substance Control Act (TSCA): All components of this product are listed on the TSCA inventory.

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. Product will become unusable with prolonged storage under 4°C (40°F). Protect from freezing. 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

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ISO Statement

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

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