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™ Polyurethane Multi-Purpose Adhesive 5010

Product Details

Regulatory Info/SDS

Product Description

3M™ Polyurethane Multi-Purpose Adhesive 5010 is a one component, fast curing adhesive which forms a rigid permanent bond. 3M 5010 bonds to a wide variety of materials including wood, foam panels, fiberglass, and wood.

Product Features

Feature	3M™ Polyurethene Multi-Purpose Adhesive 5010	Advantage
One component/moisture curing	X	• No mixing • Simplifies production
Bonds dissimilar materials	X	• Gives design flexibility
Adheres to a wide variety of materials	X	• Multiple uses and design flexibility
High strength	X	• Provides long lasting bonds
Fast curing	X	• Speeds production
Paintable after cure	X	• Improves appearance
Higher modulus / High Shore A Hardness	X	• Gives high strength bond
Unique formulation	X	• No foaming or bond line expansion

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
Consistency	Thixotropic paste

Typical Physical Properties

Attribute Name	Value
Open Time	3 — 5 min
Final Setting Time	24 h
Pressing Time	30 min
Approximate Coverage	38 lineal m (126 LF) [1]
VOC	2.1 g/L (0.02 lb/gal)
Specific Gravity	1.05

[1] 10.5 oz. [310 mm Cartridge]; 1/8 in (3 mm) bead

Typical Cured Characteristics

Temperature: 22 °C (72 °F)

Attribute Name	Test Method	Value
Modulus at 100% Elongation	ASTM D412	11.7 MPa (1700 lb/in²)

Typical Performance Characteristics

Overlap Shear Strength

Surface Prep: Abrade and Solvent Wipe
Temperature: 22 °C (72 °F)
Dwell Time: 30 d

Substrate	Value
Fir	4.7 MPa (686 lb/in²) (Substrate Broke / Gross Failure) [1]
Stainless Steel	7.2 MPa (1042 lb/in²) (Cohesive) [1]
Aluminum	6.2 MPa (905 lb/in²) (Cohesive) [1]
Cold Rolled Steel	7 MPa (1011 lb/in²) (Adhesive) [1]
Nylon	1.8 MPa (262 lb/in²) (Adhesive) [1]
ABS	3.6 MPa (528 lb/in²) (Adhesive) [1]
Acrylic (PMMA)	3.4 MPa (492 lb/in²) (Substrate Broke / Gross Failure) [1]
Polycarbonate (PC)	2.5 MPa (357 lb/in²) (Cohesive) [1]
FRP Green	11.5 MPa (1668 lb/in²) (Cohesive) [1]
Polypropylene (PP)	0.4 MPa (51 lb/in²) (Adhesive) [1]
Low Density Polyethylene (LDPE)	0.6 MPa (90 lb/in²) (Adhesive) [1]
Polyvinyl chloride (PVC)	5.4 MPa (790 lb/in²) (Substrate Broke / Gross Failure) [1]
Glass	2.3 MPa (333 lb/in²) (Substrate Broke / Gross Failure) [1]

[1] Overlap shear, 17 mil bond line. Substrates abraded and solvent wiped prior to bonding, 30 day cure. Following data should not be used for specification purposes.
Poor curing after 30 days with non-porous substrates, Metals, PC, PE were 50-75% cured.

Attribute Name	Value
Long Term Temperature Resistance	100 °C (212 °F) [1]
Minimum Long Term Temperature Resistance	-30 °C (-22 °F) [1]

[1] Long Term (day, weeks)

Attribute Name	Test Method	Value
Tensile Strength	ASTM D412	1.9 MPa (275 lb/in²)

Typical Environmental Characteristics

Temperature Resistance

Long term exposure to temperatures greater than 212°F (100°C) will decrease tensile strength over time. Do not use these products in applications where the temperatures will continuously exceed 212°F (100°C).

Handling/Application Information

Directions for Use

Surface Preparation:
Surfaces to be sealed or bonded should be clean and dry. Surfaces should be free from grease, mold release, oil, water/condensation, and other contaminants that may affect the adhesion of the sealant. Abrading with 180 to 220 grit abrasive followed by a solvent wipe will improve the bond strength. Suitable solvents include 3M™ Adhesive Remover or methyl ethyl ketone (MEK).*

*When using solvents, use in a well ventilated area. Extinguish all sources of ignition in the work area and observe product directions for use and precautionary measures. Refer to product label and MSDS for further precautions. Always pre-test solvent to ensure it is compatible with substrates.
Local and federal air quality regulations may regulate or prohibit the use of these products or surface preparation and cleanup materials. Consult local and federal air quality regulations before using these products.

Primer:
Use of a primer is an extra step and cost and will depend on substrates and the final end use. Using primer can improve the corrosion resistance of certain metals as well as improve the durability of the bond when exposed to high humidity conditions. For most applications, high strength bonds on metal can be achieved without the use of a primer. Pre-testing for adhesion is suggested to determine if a primer is needed. Contact your 3M Technical Service representative for primer recommendation and application advice.

Application:
Loading the applicator gun:make sure the applicator is set up with correct plunger attachment for cartridge.

Cartridge: Cut off tip of the cartridge. Load into applicator and fix retaining ring (if applicable). Assemble the nozzle (if applicable) and cut to desired size and shape.
Product should be used within 24 hours after cartridge is opened. Dispense product with the nozzle tip in contact with the substrate to insure good contact with the substrate. Bonding must occur within 3 minutes.
Do not apply 3M™ Polyurethane Multi-Purpose Adhesive 5010 on frozen nor wet surfaces. Do not apply over silicone nor in the presence of curing silicone.

Cleanup:
While sealant is still soft, cleaning can be done with the same solvents used for surface preparation. If sealant is already cured, removal is done mechanically with razor knife, piano wire, sanding or 3M™ Scotch-Brite™ Molding Adhesive and Stripe Removal Disc. This disc is available from 3M Automotive Aftermarket Division.

Application Examples

Market	3M™ Polyurethene Multi-Purpose Adhesive 5010
General Industrial	X
Construction	X
	Bonds wood with thin bond line and no foaming.
	Can be used to bond polystyrene or phenolic foam and foam panels.

Application Equipment

Cartridge:
A variety of applicators are available. Please contact your sales rep for assistance in selecting an applicator.

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 packaging, out of direct sunlight. When stored at recommended conditions, the shelf life is 12 months from date of manufacture for cartridges and sausage packs. When stored at recommended conditions, the shelf life is 6 months from date of manufacture for 5 and 55 gallon containers.

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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