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.



3M Science. Applied to Life.™

Technical Data Sheet

3M™ Polyurethane Adhesive Sealant 560

V-3 | English-US

Last Revision Date: August, 2025

Supersedes: September, 2024

Product Details

Regulatory Info/SDS

Product Description

3M™ 500-Series Polyurethane Construction Sealant, Polyurethane Sealant and Polyurethane Adhesive Sealant products are one component, moisture curing products which form permanent elastic bonds. They bond to a wide variety of materials including plastics, metals, fiberglass, and wood. They are formulated to have a wide variety of Shore A hardness, open times, and performance parameters to meet many application needs.

Product Features

- One component (moisture cure) has no mixing and simplifies production
- Bonds dissimilar materials for design flexibility
- Adheres to wide variety of substrates
- Permanently elastic
- Fast curing
- Paintable after cure to improve product finish
- High tensile strength for fastener replacement
- High modulus/shore A hardness designed for stronger bonds

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	Medium Paste

Typical Mixed Physical Properties

Temperature: 23 °C (73 °F)

Attribute Name	Value
Rate of Cure	4 mm/24 h (3 — 16 in/24 h)

Temperature: 23 °C (73 °F)

Attribute Name	Value
Tack Free Time	50 — 60 min

Typical Physical Properties

Attribute Name	Value
Approximate Coverage	38 lineal m (126 LF) [1]
Compatibility with paints	Water based: yes Solvent based: test beforehand
Water and salt spray resistance	Excellent
VOC	56 g/L (0.467 lb/gal)
Specific Gravity	1.17

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

Typical Cured Characteristics

Attribute Name	Test Method	Temperature	Value
Modulus at 100% Elongation	ASTM D412	23 °C (73 °F)	1 MPa (145 lb/in²)
Shore A Hardness	ASTM C661		55

Typical Performance Characteristics

Attribute Name	Value
Application Temperature	5 — 35 °C (40 — 95 °F)
Long Term Temperature Resistance	90 °C (194 °F) [1]
Minimum Long Term Temperature Resistance	-40 °C (-40 °F) [1]

[1] Long Term (day, weeks)

Test Method: ASTM D412

Attribute Name	Value
Elongation at Break	>300 %
Tensile Strength	4 MPa (580 lb/in²)

Typical Environmental Characteristics

Temperature Resistance

Long term exposure to temperatures greater than 194°F (90°C) will decrease tensile strength over time. Do not use these products in applications where the temperatures will continuously exceed 194°F (90°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.

Note: Alcohol will interfere with the curing process and extra care must be taken when using alcohol as a cleaning solvent to prevent any contact with the sealant.

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 or sausage pack.

Cartridge: Puncture seal in nozzle and remove the pull-tab seal at the bottom of the cartridge. Load into applicator and fix retaining ring (if applicable). Assemble the nozzle (if applicable) and cut to desired size and shape.

Sausage Pack: Make a 1" slit close to the crimp on one end of the sausage pack. Load the sausage pack into the applicator barrel (slit side out). Place the rounded end of the supplied sausage nozzle onto the slit end of the sausage package and fix with retaining ring. Cut nozzle to desired size and shape.
Product should be used within 24 hours after seal is punctured. Dispense product with the nozzle tip in contact with the

substrate to insure good gap filling. Bonding must occur within the first 50% of published skin time
Do not apply polyurethane sealants and adhesive sealants on frozen nor wet surfaces. Do not apply over silicone nor in the presence of curing silicone nor hybrid products. Avoid contact with alcohol and solvents during curing. Sealant can be tooled immediately after applying to give desired appearance.

Cleanup:
While sealant is still soft, cleaning can be done with the same solvents used for surface preparation. Avoid cleaning with alcohol as it will interfere with the curing process.
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

• 3M™ Polyurethane Construction Sealant 525: General Industrial, ConstructionSeals expansion joints, Construction panels, roofing tiles. Bonds well to concrete.

• 3M™ Polyurethane Sealant 540: General Industrial, Construction, Marine, Specialty VehicleSeals lap seams on trucks, trains, trailers, etc., and construction panels

• 3M™ Polyurethane Adhesive Sealant Fast Cure 550: General Industrial, Construction, Marine, Specialty VehicleBonds and seals many diverse materials. Marine deck to hull bonding.

• 3M™ Polyurethane Adhesive Sealant 551: General Industrial, Construction, Marine, Specialty VehicleBonds and seals many diverse materials. 550-type adhesive sealant with longer open time for use in large surface applications.

• 3M™ Polyurethane Adhesive Sealant 560: General Industrial, Construction, Specialty VehicleBonds floors, exterior/interior panels, roofs for trucks, trains, trailers, vans, etc.

Application Equipment

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

Bulk Dispensing:
A 38:1 ratio dual action piston pump with a ram is suggested. Actual equipment should be designed for your application based on the volume required. Please contact your sales rep or the technical service group to suggest equipment manufacturers (Graco: 1-877-844-7226 or www.graco.com).

Product Certifications and Listings

Standard Specification for Elastomeric Joint Sealants: ASTM C920, Type S, Grade NS, Class 25
3M™ Polyurethane Construction Sealant 525, 3M™ Polyurethane Sealant 540, 3M™ Polyurethane Adhesive Sealant Fast Cure 550

NSF R2: Coating for Use on Structural Surfaces (White and Gray only)
3M™ Polyurethane Construction Sealant 525, 3M™ Polyurethane Adhesive Sealant Fast Cure 550

Federal Railroad Administration: Surface Flame Spread ASTM E162, Smoke Generation ASTM E662
3M™ Polyurethane Sealant 540, 3M™ Polyurethane Adhesive Sealant Fast Cure 550, 3M™ Polyurethane Adhesive Sealant 560

Bombardier SP800-C: Toxic Gas Production
3M™ Polyurethane Sealant 540, 3M™ Polyurethane Adhesive Sealant Fast Cure 550, 3M™ Polyurethane Adhesive Sealant 560

IMO/MED: International Maritime Organization
3M™ Polyurethane Sealant 540, 3M™ Polyurethane Adhesive Sealant Fast Cure 550

Leadership In Energy and Environmental Design (LEED): Contributes to LEED credit
3M™ Polyurethane Construction Sealant 525, 3M™ Polyurethane Sealant 540, 3M™ Polyurethane Adhesive Sealant Fast Cure 550, 3M™ Polyurethane Adhesive Sealant 551, 3M™ Polyurethane Adhesive Sealant 560

Industry Specifications

NFPA 130 test report details (ASTM E162, ASTM E662, SMP 800-C, BSS 7239)
NFPA 130 test report details (ASTM E1354)

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

3M™ Industrial Adhesives and Tapes Division
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