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

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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
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데빗암 · 삼각대 · 구조용 윈치
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작업 환경에 맞춘 개인보호구

**산업용 소재·건축자재**

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

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홈페이지 바로가기 →
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시공사례 바로가기 →
문의하기 →

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3M Science. Applied to Life.™

# Technical Data Sheet

3M™ Adhesive Sealant 730 UV

English-US

**Last Revision Date:** September, 2024

**Supersedes:** June, 2024

Product Details

Regulatory Info/SDS

## Product Description

3M™ 700-Series Silane Modified Polymer (SMP) Adhesive Sealant products are one component, moisture curing products which form permanent elastic bonds. They are similar in function as a typical one component polyurethane sealant but are isocyanate-free. 3M SMP Adhesive Sealants bond to a wide variety of materials including plastics, metals, fiberglass, and wood. Differentiated from other high performance sealants as they are very low VOC, have better UV resistance, and have broad substrate adhesion for a wide range of productivity enhancement applications.

## Product Features

* All paints should first be tested for compatibility in application

| Features | 3M™ 700-Series Adhesive Sealant Products | | | Advantages |
|---|---|---|---|---|
| | 730 | 740 UV | 760 UV | |
| One component, moisture-curing | x | x | x | - No mixing<br>- Simplifies production |
| Bonds dissimilar materials | x | x | x | - Giving design flexibility |
| Adheres to a wide variety of materials | x | x | x | - Multiple uses and design flexibility |
| Permanently elastic | x | x | x | - Provides long lasting bonds |
| Fast-skinning | x | x | x | - Speeds production |
| Paintable when wet* | x | x | x | - Improves appearance |
| High tensile strength | - | - | x | - Gives high strength bonds<br>- Replace rivets and mechanical fasteners |
| Low odulus, Low Shore-A hardness | x | x | - | - Ideal for sealing<br>- Good for bonding materials with different coefficients of thermal expansion |
| High Modulus, High Shore-A hardness | - | - | x | - Gives high strength bonds |
| Cures Clear | x | - | - | - Improves appearance |

## 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 | >3.5 mm/24 h (>1/8 in/24 h) |

Temperature: 23 °C (73 °F)

| Attribute Name | Value |
|---|---|
| Tack Free Time | 25 — 30 min |

## Typical Physical Properties

| Attribute Name | Value |
|---|---|
| Color | Clear |
| Approximate Coverage | 38 lineal m (126 LF) [1] |
| Compatibility with paints | Water based: yes<br>Solvent based: test beforehand [2] |
| Resistance to dilute acids and bases | Good |
| Water and salt spray resistance | Excellent |
| VOC | 11 g/L (0.09 lb/gal) |
| Specific Gravity | 1.05 |

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

[2] Can be painted when wet

## Typical Cured Characteristics

| Attribute Name | Test Method | Temperature | Value |
|---|---|---|---|
| Modulus at 100% Elongation | ASTM D412 | 23 °C (73 °F) | >0.6 MPa (>80 lb/in²) |
| Shore A Hardness | ASTM C661 | | 30 |

## 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 | 1.7 MPa (250 lb/in²) |

## Typical Environmental Performance

| Attribute Name | Value |
|---|---|
| UV Resistance | Excellent |

## 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, methyl ethyl ketone (MEK), isopropyl alcohol (IPA), or acetone.*

*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 or sausage pack.

**Metal 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.

**Plastic Cartridge:**Cut off the top of the cartridge with a sharp blade, just above the area where the threads stop. Attach the nozzle 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 pack 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 and substrate wetting. Bonding must occur within the first 50% of published skin time

Do not apply SMP sealants and adhesive sealants on frozen nor wet surfaces.
Do not apply over silicone nor in the presence of curing silicone or curing polyurethane. Avoid contact with uncured polyurethane 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. 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™ 700-Series Adhesive Sealant Products | | |
|---|---|---|---|
| | 730 | 740 UV | 760 UV |
| General Industrial | x | x | x |
| Construction | x | x | x |
| Specialty Vehicle | x | x | x |
| | Seals lap seams on trukes, trains, trailers, etc, and construction panels. Seals/Bonds well to most common substrates | | Bonds floors exterior / interior panels, roofs for trucks, trailers, vans, etc. Bonds well to moist materials |

### 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 46:**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

| Certification | 3M™ 700-Series Adhesive Sealant Products | | |
|---|---|---|---|
| | 730 | 740 UV | 760 UV |
| NSF R2<br>Coating for Use on Structural Surfaces<br>(Color Specific) | - | (White and Gray Only) | (White and Gray Only) |
| Leadership in Energy and Environmental Design (LEED)<br>Contributes to LEED credit | x | x | x |
| MED Marine Certification<br> | - | - | x |

## 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. For best performance, use this product within 12 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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