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™ Adhesion Promoter AP596

English-US

Last Revision Date: April, 2025

Supersedes: June, 2024

Product Details

Regulatory Info/SDS

Product Description

3M™ Adhesion Promoter AP596 is a low viscosity adhesion promoter recommended for use with the 3M™ 500-Series Polyurethane Adhesives/Sealants and 3M™ 700-Series Hybrid Adhesives/Sealants, as well as the 3M™ OEM Polyurethane Glass Adhesive Sealant 590. 3M Adhesion Promoter and Primers are applied to a wide variety of materials including glass, acrylic / PMMA, polycarbonate, and many other materials prior to adhesive/sealant use to assist in bonding.

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
Viscosity	Water Thin

Typical Physical Properties

Attribute Name	Value
Color	Clear
Solids Content by Weight	3 %
VOC	798 g/L (6.66 lb/gal)
Active Ingredient	Silane / Ethanol

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.

Note: Alcohol will interfere with the curing process of polyurethane 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.
Use of a 2-step surface preparation is recommended for certain substrates. Surface prep consists of applying 3M™ Adhesion Promoter AP596 followed by the appropriate 3M™ Primer to both bonding surfaces prior to using adhesive sealant. In areas with VOC restrictions, it is imperative that bonding surfaces are clean of contaminants. It may be acceptable to bond certain substrates without primer if the bonding area is abraded with 3M™ Scotch-Brite™ abrasive to improve adhesion. Contact 3M for technical support.
Do not apply 3M™ Adhesion Promoter and Primer on frozen nor wet surfaces. Do not apply over silicone nor in the presence of curing silicone.

Application:
Supplies:
• 3M Adhesive Sealant in cartridges or 600 ml sausage packs
• 3M AP596 Adhesion Promoter
• Appropriate 3M Primer matched to the substrate(s)
• Soft lint-free cloths for 3M AP596 Adhesion Promoter and/or 3M P592 Metal Primer application
• Wool dauber(s) for 3M Primer application
• Applicator gun
• Nozzle(s)
• Substrates
• Personal protective gear (safety glasses, powder-free gloves, etc)
Clean entire surface of substrates using a solvent or non-greasy cleaner.
Apply 3M™ Adhesion Promoter AP596 to both substrates: Pour 3M AP596 Adhesion Promoter onto a soft lint-free cloth folded in quarters. Wipe the bonding area, flipping the cloth at regular intervals to reveal a clean section. With a new clean folded cloth, wipe off the 3M AP596 Adhesion Promoter in the same manner, flipping the cloth at regular intervals to reveal a clean section. Wait 15 minutes to dry.

Apply appropriate 3M™ Primer to both substrates: Shake appropriate 3M Primer for 30 seconds after you hear the ball moving inside the bottle. Dip a clean wool dauber into the primer. Roll the dauber around the edge of the bottle to squeeze out excess primer. Replace cover on primer bottle. Apply a single continuous layer of primer to the surface. Wait 30 minutes to dry. Refer to the Instructions for Use for the appropriate adhesive/sealant chosen and proceed accordingly.

Cleanup: Use a solvent such as MEK to clean up any excess primer.

Application Equipment

Wool dauber is recommended for applying 3M Primers. Use of a paint brush or other method of application is not recommended because there will be voids in the coating after application. Any voids will cause a defect in the coating and will affect bond quality. Contact your 3M Sales Representative for information on ordering Wool Daubers.

Storage and Shelf Life

3M™ Adhesion Promoter AP596 must be stored in an appropriate climate controlled space suitable for flammable materials. Store the product in the original unopened container 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity to maximize shelf life. When stored at recommended conditions, the shelf life is 12 months from the date of manufacture. After opening, the 3M AP596 Adhesion Promoter must be used within 30 days (if the product begins to turn cloudy, dispose of properly).

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

Technical Information: The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this 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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