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)

ADDRESS (15431) 경기도 안산시 단원구 풍전로 37-9 트리플렉스 301동 118호
TEL 0507-1374-9229
FAX 0504-481-6749
E-MAIL bkkim@snapshoot.co.kr

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

SNAPSHOOT
ENGINEERED FOR A SAFER TOMORROW

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.



English-US

Last Revision Date: August, 2024

Supersedes: August, 2024

Technical Data Sheet

3M™ Water-Based Sprayable Protective Sealant 320

Product Description

3M™ Water-Based Sprayable Protective Sealant 320 is a one-part, water-based acrylic emulsion developed to provide long-term protection of metal surfaces in the transportation industry. It provides excellent corrosion protection and acts as a large surface sealant for roof applications. It is suitable for new metal surfaces and bonds exceptionally well to aged and previously coated surfaces.

Product Features

- Easy application with spray equipment
- Fast drying, water-based emulsion
- Excellent corrosion resistance
- Highly UV resistant adhesion and durability
- Exceptional flexibility
- Seals large surfaces as a water barrier eliminating leaks
- Bonds well to steel, aluminum, and concrete surfaces

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 Mixed Physical Properties

Attribute Name	Value
Time to Full Cure	14 d

Typical Physical Properties

Attribute Name	Test Method	Value
Color		Black Light Gray Dark Gray White
Solids Content by Weight		60 %
Appearance		Smooth Paste
Hard Time		24 h
Touch Dry Time		Approximately 1 h [1]
VOC		3.9 g/L (0.03 lb/gal)
Water Vapor Transmission	ASTM E96	20 g.mm/m²/24 h
Salt Spray Resistance	ASTM B117	>1000 h [2]
Cold Flex	ASTM D522	Pass 1/2” mandrel at -25 °C (Pass 1/2” mandrel at -15 °F)
Humidity Resistance	ASTM D2247	>1000 h [3]
Minimum Time for Over-coating		Approximately 1 h [1]

Attribute Name	Test Method	Value
US Flame, Smoke, Toxicity Testing		ASTM E 162 ASTM E 662 Boeing BSS 7239 ASTM E 1354
Accelerated Weathering	ASTM D4541	>1000 h
Abrasion Resistance	ASTM 4060	15 mg weight loss, CS16 wheel 500 g load, 1000 cycles
Maximum Time for Over-coating		Indefinite, provided surface is clean

[1] Touch dry and minimum over coating times are for open areas with good air movement. Drying times will be extended in enclosed areas with limited air movement or high humidity.

[2] 350 micron coating thickness on grit blasted steel; No blistering, no corrosion at scribe, no loss of adhesion)

[3] No blistering, no corrosion at scribe, no loss of adhesion

Typical Performance Characteristics

Attribute Name	Test Method	Value
Elongation at Break	ASTM D412	250 %
Tensile Strength	ASTM D412	2.9 MPa (420 lb/in^2)
UV Resistance	ASTM G53	>1000 h

Handling/Application Information

Application Techniques

All surfaces to be bonded must be clean from dust, oil, grease and any other contaminants that could interfere with sealing.

Metal Surfaces: For optimum corrosion protection the surface should be abrasive blast cleaned to NACE No. 2/SSPC-SP10 near white metal, ISO 8501:1, Sa2 1/2BS7079 Part A1 1989/ISO 8501-1:1998 – with a medium profile – 50 microns. If abrasive blasting is not possible surfaces should be prepared by mechanical wire brushing grinding or high pressure water jetting (typically 3500 psi) to achieve Swedish Standard St3 or equivalent, taking particular care when cleaning badly pitted parts.

Previously Coated surfaces: Any loose/flaking material must be removed. Surfaces should then be thoroughly cleaned and abraded.

Application procedures: Application should not be carried out at temperatures below 7^{0}C (45^{0}F) or when the relative humidity exceeds 85% or when the surface to be coated is less than 3 degrees above the dew point.

Product should be applied such that final dry film thickness is 350 microns (14 mils). It is easier to achieve a more uniform film if applied in two separate coatings. The first coat should be allowed to dry to the touch (approximately 60 minutes, depending on ambient conditions) prior to applying the second coat.

Application Equipment

3M™ Water-Based Sprayable Protective Sealant 320 can be applied by brush, roller, or spray. For brush application, good quality, stiff-bristled brushes should be used. For roller application, medium-to-long pile rollers should be used.

For application by spray, suggested equipment includes a minimum 32:1 piston pump, 0.015”-0.019” airless spray tip, and 3000-3500 psi tip pressure. Spray equipment should be fitted with a 100 mesh inline fluid filter.

All equipment should be cleaned IMMEDIATELY after use by flushing with clean water. Dried deposits can be softened with 3MTM Citrus-Based Adhesive Remover.

Storage and Shelf Life

Store under normal conditions of 4° to 32°C (40° to 90°F) and 40 to 60% relative humidity in the original, unopened packaging, out of direct sunlight. Product will become unusable with prolonged storage under 4°C (40°F). Protect from freezing. For best performance, use this product within 24 months from date of manufacture.

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.

Product Selection and Use: Many factors beyond 3M’s control and uniquely within user’s knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer’s application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer: Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M’s option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability: Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

Disclaimer: 3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use. Unless specifically stated otherwise on the applicable product packaging or literature, these products are not intended, labeled, or packaged for sale to or use by consumers (e.g., for home, personal, primary or secondary school, recreational/sporting, or other uses not described in the applicable product packaging or literature), and must be selected and used in compliance with applicable health and safety regulations and standards (e.g., U.S. OSHA, ANSI), as well as all product literature, user instructions, warnings, and limitations, and the user must take any action required under any recall, field action or other product use notice. Misuse of 3M industrial and occupational products may result in injury, sickness, or death. For help with product selection and use, consult your on-site safety professional, industrial hygienist, or other subject matter expert. For additional product information, visit www.3M.com.

ISO Statement

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

3M™ Industrial Adhesives and Tapes Division
3M Center, St. Paul, MN 55144-1000
3M.com/iatd

3M is a trademark of 3M Company.
©3M 2024 (8/24)