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

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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™ Scotch-Weld™ Epoxy Adhesive 7240FR

V-5 | English-US
Last Revision Date: August, 2026
Supersedes: July, 2025

Additional Info

Regulatory Info/SDS

Product Description

3M™ Scotch-Weld™ Epoxy Structural Adhesive 7240 B/A FR is a two-part, 2:1 mix ratio adhesive and contains glass beads for control of minimal bond line thickness.

Product Features

- Long open time for large surface application
- Non-sag properties
- Contains glass beads for thickness control
- High resistance to environmental exposure

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
Accelerator Resin	Modified Amine
Base Resin	Modified Epoxy
Mix Ratio by Volume (B:A)	2:1
Mix Ratio by Weight (B:A)	1.9:1
Accelerator Color	White
Base Color	Black
Components	Glass beads for bond line control, diameter 100 - 212 µm

Attribute Name	Temperature	Value
Accelerator Density		1.11 g/cm³
Base Density		1.06 g/cm³
Accelerator Viscosity	23 °C (73 °F)	100 Pa·s [1]
Base Viscosity	23 °C (73 °F)	150 Pa·s [1]

[1] Brookfield sp. #5 @ 2 rpm

Typical Mixed Physical Properties

Temperature: 23 °C (73 °F)

Attribute Name	Test Method	Value
Time to Full Cure		2 days
Worklife, 50g mixed	ISO 10364	60 min
Worklife, 20g mixed	ISO 10364	75 min

Typical Performance Characteristics

Substrate: Aluminum 2024 T3

Surface Prep: Etched

Temperature: 23 °C (73 °F)

Overlap Shear Strength

Test Method: NF EN 1465

Test Condition	Value
-40 °C	23.6 MPa
23 °C	26.5 MPa
70 °C	12.4 MPa

Attribute Name	Value
Application Temperature	15° C - 30°C

Test Condition: 23 °C
Environmental Condition: +1 hr @ 60 °C (140 °F)
Dwell Time: 24 h
Surface Prep: Etched
Substrate: Aluminum
Temperature: 23 °C (73 °F)

Attribute Name	Test Method	Value
Floating Roller Peel	ISO 4578	84.4 N/25mm (33.8 N/cm) [1]

[1] 25 mm (1 in) wide samples; 0.1 -0.2 mm (0.004 - 0.008 in) bond line thickness. The testing jaw separation rate was 150 mm/min (6 in/min). The bonds are made with 1.6 mm (0.064 in) bonded to 0.5 mm (0.020 in) thick adherends.

Handling/Application Information

Directions for Use

3M™ Scotch-Weld™ Epoxy Adhesive 7240 B/A FR is supplied in dual syringe plastic duo- pak cartridges as part of the 3M™ EPX™ Applicator System. The duo-pak cartridges are supplied in 400 ml configurations. To use the EPX cartridge system simply insert the duo-pak cartridge into the EPX applicator. Next, remove the duo-pak cartridge cap and expel a small amount of adhesive to be sure both sides of the duo-pak cartridge are flowing evenly and freely. If simultaneous mixing of Part A and Part B is desired, attach the EPX mixing nozzle to the duo-pak cartridge and begin dispensing the adhesive.
When mixing Part A and Part B manually the components must be mixed in the ratio indicated in the typical uncured properties section of this data sheet. Complete mixing of the two components is required to obtain optimum properties. Two-part mixing/proportioning/dispensing equipment is available for intermittent or production line use. These systems are ideal for line uses because of their variable shot size and flow rate characteristics and are adaptable to most applications.
Apply adhesive to clean, dry surfaces, joint parts and secure until adhesive sets (see rate of strength build up).

Surface Preparation

A thoroughly cleaned, dry grease-free surface is recommended for maximum performance. Cleaning methods, which will produce a break free water film on metal surfaces, are generally satisfactory.
• Abrading can be done using 3M™ ScotchBrite™ General Purpose Hand Pad 7447 for metallic fixtures and 3M™ ScotchBrite™ Roloc Surface Conditioning Disc TR Amed (ø 50.8 mm) for substrates.
• Sandblasting can be done with 6 bar pressure using FEPA 220 (53µm) white corundum at an angle of 45° relative to the surface.

The following cleaning methods are suggested for common surfaces:

Steel and Aluminium
1. Wipe free of dust with oil-free solvent such as acetone or isopropyl alcohol.
2. Sandblast or abrade using clean grit abrasives (180grit or finer).
3. Wipe again with solvent to remove loose particles.
If a primer is used, it should be applied within 4 hours after surface preparation. If 3M™ Structural Adhesive Primer 1945 B/A is used, apply a thin coating (10µm) on the metal surface to be bonded, air dry at 24 °C for 1hr, then cure for 30 minutes at 82 °C, 5 minutes at 120 °C or 3 hours at 25 °C

Note: Aluminium may also be acid sandblasted. Follow the manufacturer's precautions and directions for this procedure.

Plastic/Rubber
1. Wipe with isopropyl alcohol*.
2. Abrade using fine grit abrasive (180 grit or finer)
3. Remove residue by wiping again with isopropyl alcohol*.

Glass
1. Solvent wipe surface using isopropyl alcohol*

*Note: When using solvents, be sure to extinguish all ignition source and follow manufacturer's precautions and directions for use.

Storage and Shelf Life

Store at 16 °C - 27 °C (60°F to 80°F) in the original, unopened packaging, out of direct sunlight. The product can be stored up to 36 months after production. Note: The shelf life may be shortened if the original packaging is not properly sealed or stored in an environment with high temperatures or humidity. Rotate stock on a "first in - first out" basis.

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.

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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
3M Center, St. Paul, MN 55144-1000
3M.com/iatd

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