860JF

PRODUCT DESCRIPTION

Simiron 860JF is a fast-set, semi-rigid polyurea used for filling control and construction joints in concrete floors. This high-performance system is mixed and applied via a dual cartridge mechanism or plural mixer. The high solids, low odor system offers a large shave-time window and provides better UV resistance than many other polyurea joint fillers.

860JF reduces spalling of joint edges caused by heavy loads and wheel traffic. This protection is provided by support of the filled joint, which is very different from the extreme flexibility and low strength of a joint sealant.

FEATURES & BENEFITS

- Fast setting formula
- Protects joints from debris and damages from heavy traffic
- High Solids, Low odor
- Self-leveling, low viscosity system
- Wide application and service temperature range, including freezer applications
- Low temperature applications as low as -25°F (-32°C)
- CDPH Std Method v1.2 compliant (LEED credits available)
- Acceptable in USDA inspected facilities
- No foaming or bubbling in damp joints
- Excellent performance properties
- Large shave-time window
- Complies with ACI 302 regarding control and construction joint fillers

TECHNICAL DATA

PHYSICAL DATA	COLOR	ITEM NUMBER
Dual Component Cartridges 22 oz. (600mL)	Concrete Gray Black Intellectual Gray Dovetail Gauntlet Gray Warmstone	40002879 40007904 40004989 40004781 40006150 40001179
Tintable 10 Gallon (37.9L) Kits	Neutral	28863227
Tintable Base: 5 US Gal (18.9 L)	Neutral	40002893
Activator: 5 US Gal (18.9 L)	Amber/Brown	40002886

TECHNICAL DATA

PHYSICAL DATA	COLOR
Components	2 (Base + Activator)
Solids Content	99%
Mix Ratio (by volume)	1: 1
Gel Time 100 Gram mass @ 72°F (22°C)	55 - 65 seconds
Viscosity	Base - 2400 cPs, Activator - 1200 cPs
VOC (EPA Method 24)	10 g/L

CURE TIMES @ 72F (22C), 50% RH	
Tack Free	12 - 15 minutes
Light Traffic	1 hour
Heavy Traffic	2 hours

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COVERAGE

The following chart provides approximate coverage estimates in linear ft. /gal (m/L).

JOINT WIDTH	1.5 " (38 MM) DEPTH	2 " (51 MM) DEPTH	2.5 " (63 MM) DEPTH
1/8" (3.2 mm)	103' (8.2 m)	77' (6.1 m)	62' (4.9 m)
3/16" (4.8 mm)	68' (5.4 m)	51' (4.1 m)	41' (3.3 m)
1/4" (6.4 mm)	51' (4.1 m)	39' (3.1 m)	31' (2.5 m)
3/8" (9.5 mm)	34' (2.7 m)	26' (2.1 m)	21' (1.7 m)

PHYSICAL PERFORMANCE PROPERTIES

PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Adhesion to Concrete	ASTM D4541	275 psi (1.9 MPa)
Elongation	ASTM D412	242%
Shore A Hardness	ASTM D2240	91
Tensile Strength	ASTM D412	1642 psi (11.3 MPa)

SURFACE PREPARATION

Concrete should be a minimum of 28 days old. Joints must be clean, dry and free of all contaminates such as dirt, dust, grease, paint, oil and other foreign materials. Preferred methods of joint cleaning include using a dustless concrete saw with a diamond blade or sandblasting. Remove all residues and debris using a HEPA filtered vacuum cleaner or oil-free air compressor. Joints should be clean and dry before application to ensure best adhesion to concrete.

SAFETY AND TECHNICAL

Refer to the SDS sheet before use. Safety precautions must be strictly followed during storage, handling, and use. Personal protective equipment (PPE) should be worn at all times. PPE will include (but is not limited to): Safety glasses with side shields and high quality nitrile gloves. To acquire additional information or technical and safety data, please visit: *www.simiron.com*

TEMPERATURE

Air	-25° – 120°F	-32° – 49°C
Surface	-25° – 120°F	-32° – 49°C
Material	60° – 85°F	16° – 29°C

Higher temperatures will shorten work time.

APPLICATION EQUIPMENT

Assemble all equipment. Equipment will include (but is not limited to)

- 1:1 Ratio Dual Component Manual or Air Gun
- 1:1 Ratio Dual-feed power dispensing equipment

APPLICATION PROCEDURE

Simiron 860JF mix ratio is 1 part Base to 1 part Activator by volume. Material in pails should be thoroughly mixed before use. Mix at low speed using a power drill and paddle to ensure each part is thoroughly premixed before mixing the base and activator together using a plural mixer, do not whip air into material while mixing. Prefilled cartridges should be shaken for two minutes to ensure material is thoroughly mixed before use. Follow specific instructions on cartridge before use.

DISPENSING AND FILLING

Use a ½" diameter static mixer with 30 or 32 elements for dispensing and proper mixing. Simiron 860 JF must be installed in the joint to full depth. Joints should be slightly overfilled so that they can be shaved flush with surrounding concrete joint edges. Take care to not trap air bubbles when filling the joints.

SHAVING

Shaving Simiron JF 860 can be done as soon as 30 minutes, depending on surface and air temperature conditions. Be sure to always use a sharp blade when shaving joints flush to ensure a smooth finish.

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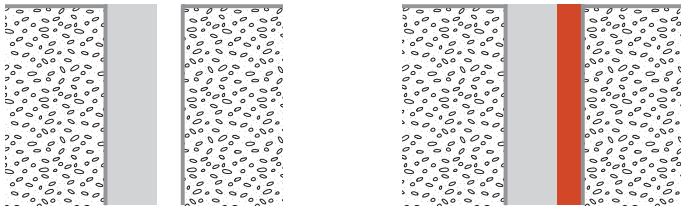
CLEAN UP & DISPOSAL

Simiron 860JF can be cleaned up using NMP, xylene, MEK or other mild solvents; follow all solvent manufacturers' safety instructions.

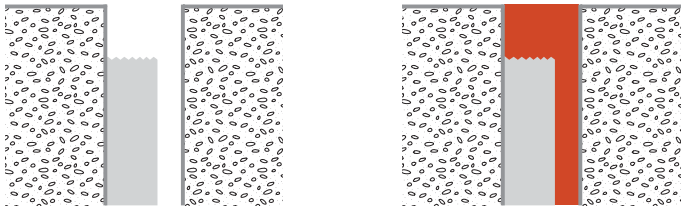
MAINTENANCE

To maintain the appearance and extend the life of the newly filled joints, it is imperative to have a routine maintenance program. Periodically inspect the joints for any separation of the filler and damage to to the filler or joint edges.. Fix these issues to prevent further damage.

If the filler pulls away from one edge more than 1/32", the gap can be filled with 860JF after dust is removed and shaved level.



You can also remove the top 1/4" of previously installed filler, being careful to remove all dust, and refill/shave the joint.



LIMITATIONS

- Do not fill joints that move with a rigid joint filler; use a joint sealant.
- Do not fill joints in concrete that is < 28 days old - 90 days is preferred due to significant concrete shrinkage from water loss.
- Do not fill joints in spaces that are not stabilized to operating temperatures and humidities.
- Do not fill joints during months when lowest or highest temperatures of year occur as concrete will be expanded or contracted and joints will be extremely narrow or wide.
- Do not fill joints that are not prepped.
- Do not use at conditions not recommended.

SHELF LIFE AND STORAGE

12 months from date of manufacture when stored indoors in the original unopened container at 60°F – 85°F (16°C – 29°C) in a dry location with humidity below 65%.

- Do not allow materials to freeze.

TECHNICAL ASSISTANCE

Information is available by calling SIMIRON
Toll Free: **1.866.515.8775 / +1.248.686.3600**

LIMITED WARRANTY

SIMIRON warrants this product to be free from defect in the material that affects its performance for a period of one year (from date of purchase). SIMIRON will replace at no charge the quantity of the Coating that SIMIRON determines has failed to perform, as the sole and exclusive remedy for any breach of this warranty and/or any other defect or failure of the coating. Proof of purchase is required. Cost of labor for application of any product specifically is excluded. Warranty is void if Simiron products are mixed with or used in conjunction with materials that are substituted for Simiron products. Warranty is nontransferable

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PRODUCT DATA SHEET: 07/15/2026

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