



Simiron 860 JF Polyurea Joint Sealer

Description:

Simiron 860 JF is a high performance semi-rigid polyurea used for filling control and construction joints in concrete floors. Unlike many competitive products, this 100% solids, VOC free system features a fast setting formula, provides excellent UV resistance, is moisture insensitive and offers a large shave-time window. 860 JF supports and protects joint edges from heavy loads and wheel traffic, reducing spalling of the joint edges.

Features & Benefits:

- Fast setting formula
- Protects joints from debris and damages from heavy traffic
- Excellent UV Resistance
- 100% Solids system free of VOC's
- Self-leveling, low viscosity system
- Wide application and service temperature range, including freezer applications
- Low temperature applications as low as -25°F (-32°C)
- Moisture insensitive
- 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:

Test	Test Method	Results
Shore A Hardness	ASTM D2240	A 86-88
Shore D Hardness	ASTM D2240	D 33
Tensile Strength	ASTM D638	1,320 psi (9.1 MPa)
Elongation	ASTM D638	250%
Adhesion to Concrete	ASTM D4541	275 psi (1.9 MPa)
Solids Content	By Volume	100%
Solids Content	By Weight	100%
Mix Ratio	By Volume	1:1
VOC	EPA Method 24	0 g/L
Gel Time	100 gram mass	27 seconds
Tack Free	@ 72°F (22°C)	3 to 5 minutes
Shave Ready	@ 72°F (22°C)	30 min
Traffic Ready	@ 72°F (22°C)	Light Traffic: 1 hour Heavy Traffic: 2 hours

Coverage:

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

Surface Preparation:

Concrete should be a minimum of 28 days old. Joints must be clean, dry and free of all contaminants 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.

Application Data:

Thoroughly read SDS and complete installation instructions prior to use. Do not Simiron 860 JF as an expansion joint sealant.

Application Temperature Range

Simiron 860 JF can be applied in temperatures ranging from -25°F (-32°C) to 120°F (49°C).

Application Equipment

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

Mixing

Simiron 860 JF 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 material is thoroughly mixed before application, 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 1/2" 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.

Clean Up:

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

Packaging: Dual Component Cartridges 22 oz. (600mL)

10 Gallon (37.9L) Kits

Base: 5 US Gal (18.9 L) UN Pail

Activator: 5 US Gal (18.9 L) UN Pail

Storage: Store Simiron 860 JF indoors in a dry place with humidity below 75% and ambient temperatures between 55°F to 85°F (13°C to 29°C).

Safety: Refer to SDS sheet before use. Safety precautions must be strictly followed during storage, handling and use.

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.

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