



## Simiron 850 CF Polyurea Crack Filler

### Description:

**Simiron 850 CF** is a two component, 100% solids polyurea crack filler. This fast curing formula allows for a quick concrete repair to cracks, joints, holes and other damaged concrete surfaces. 850 CF low viscosity formula provides excellent adhesion to concrete creating a permanent repair to damaged concrete surfaces. 850CF fast cure time allows repaired areas to be opened to traffic in as little as 10 minutes.

### Features & Benefits:

- Easy 1:1 Mix Ratio
- No Odor; Solvent-Free Formula
- Self-Leveling
- Excellent adhesion to concrete
- High Tensile Strength and Impact Resistance
- Cures in less than 10 minutes
- Can be grinded in 20-30 minutes
- Cures at temperatures as low as 0°F (-18°C)
- Can be mixed with silica sand as a filler

### Technical:

Available only in Gray

Test	Test Method	Results
Shore D Hardness	ASTM D2240	74 – 76 D
Tensile Strength	ASTM D412	5,600 psi
Elongation	ASTM D412	5%
Compressive Strength	ASTM C109	5,600 psi
Abrasion Resistance	ASTM D4060 CS-17 Wheel, 1,000 g load, 1,000 cycles	20 mg
Adhesion to Concrete	ASTM D4541	275 psi (1.9 MPa)
Solids Content	By Weight	100%
Solids Content	By Volume	100%
Mix Ratio	By Volume	1:1
Gel Time	100 gram mass @ 72°F (22°C)	2-3 minutes
VOC	EPA Method 24	0 g/L
Tack Free	72°F (22°C)	5 minutes
Traffic Ready	72°F (22°C)	Light Traffic: 10 minutes Heavy Traffic: 30 minutes

---

**Surface Preparation:**

Concrete should be a minimum of 28 days old. All dirt, oil, dust, paint, grease and other foreign materials must be removed to assure adhesion to concrete. For repair of spalled concrete or pop-outs, use a still wire brush or twisted wire wheel to remove any loose, unsound or deteriorated concrete before application. Cracks must be chased and cleaned with a diamond crack chasing blade on a handheld grinder. After preparing area, remove all dust and debris with a vacuum. All surfaces must be clean and dry before filling with 850 CF.

---

**Application:**

*Thoroughly read SDS and complete installation instructions prior to use.*

*Application Temperature Range*

850CF can be applied in temperatures ranging from 0°F (-18°C) to 120°F (49°C)

---

**Mixing:**

Simiron 850 CF has a mix ratio of 1 part Base to 1 part Activator by volume. Mix or shake both components separately before use. Premeasure equal amounts of Base and Activator before mixing together. Mix Base and Activator by stir stick or paddle mixer for 20-30 seconds. Only mix enough material that can be used within 2 to 3 minutes after mixing.

*Adding Silica Sand*

Be sure silica sand is dry and doesn't contain any moisture before mixing with 850 CF. For best application and usage premeasure Base, Activator and silica before mixing; do add more than one part silica to mixture. Add silica to base and premix together to ensure equal consistency. Premixing the silica into the base will make the mixing process easier when adding the activator and maximize working time. Add Activator to the pre-mixture of base and silica and mix for 20-30 seconds.

Do not thin product with any solvents.

---

**Clean Up:**

Simiron 850 CF can be cleaned up using xylene, MEK or acetone; follow all solvent manufactures' safety instructions.

---

**Shipping Data:**

Packaging	<u>1 Gallon (3.79 L) Kit</u>
Base:	64 FL OZ (1.89 L)
Activator:	64 FL OZ (1.89 L)

---

**Storage:**

Simiron 850 CF must be sealed and stored indoors in a dry place with humidity below 65% and ambient temperatures between 55°F to 85°F (13°C to 29°C).

Shelf Life: 1 year

---

**Safety Precautions:**

Refer to SDS sheet before use. Safety precautions must be strictly followed during storage, handling and use. Copy of SDS can be found within Simiron.com.

---

**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.

---

**Corporate Office**

Simiron  
32700 Industrial Drive  
Madison Heights, MI 48071  
(248) 686-3600 / (866) 515-8775  
[www.simiron.com](http://www.simiron.com)

---

**Disclaimer:** *All information provided by Simiron, Inc. concerning Simiron products, including but not limited to, any recommendations and advice relating to the application and use of Simiron products, is given in good faith based on Simiron's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Simiron's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Simiron's control are such that Simiron assumes no liability for the provision of such information, advice, recommendations or instructions related to its products. The use of Simiron product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s).*

*Simiron reserves the right to change the properties of its products without notice. All sales of Simiron product(s) are subject to its current terms and conditions of sale which are available by calling (866) 515-8775.*