



800CF

PRODUCT DESCRIPTION

Simiron 800CF is a two-component, 100% solids epoxy crack filler. This formula is thickened for ease of use to repair cracks, holes, and damaged concrete on vertical or horizontal surfaces.

FEATURES & BENEFITS

- Easy-to-Use
- 100% Solids
- Low Odor
- VOC Compliant

RECOMMENDED USES

- Patch cracks and defects in concrete and vertical masonry.
- Use under all Simiron coatings systems.

PRODUCT INFORMATION

PHYSICAL DATA	COLOR/FINISH	ITEM NUMBER
2 Quart Complete Kit	Haze Gray	50001048
1 Gallon Complete Kit	Haze Gray	40002862
2 Gallon Complete Kit	Haze Gray	50001047

TECHNICAL DATA

PHYSICAL DATA	
Components	2 (Base + Activator)
Color	Haze Gray
Solids Content	100%
Mix Ratio (by volume)	1:1
Gel Time 100 Gram mass @ 72°F (22°C)	2 - 3 minutes
VOC (EPA Method 24)	11 g/L

THEORETICAL COVERAGE	
.13 cu. ft. per gallon or 1,228 lineal ft. of 1/8" x 1/8" cracks	
CURE TIMES AT 72°F (22°C)	
Work Time	35 - 45 minutes
Tack Free	8 - 10 hours
Light Traffic	24 hours
Full Cure	5 days
Recoat	Immediately

PHYSICAL PERFORMANCE

PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Adhesion to Concrete	ASTM D4541	350 psi (100% Concrete Failure)
Compressive Strength	ASTM D695	8,710 psi
Elongation	ASTM D638	2.5%
Hardness (24 hour Shore D)	ASTM D2240	65
Heat Deflection	ASTM D648	138 F (59 C)
Impact Resistance (Gardner)	ASTM D2794	50 in.-lbs.
Tensile Strength	ASTM D638	6,256 psi

SURFACE PREPARATION

Concrete must be sound, clean, dry and free of contaminants such as dirt, dust, grease, oil, silicones and other contaminants that may negatively affect adhesion. Concrete should be a minimum of 28 days old.

This product is intended for cracks up to 1/8 inch in width, but larger patches can be made with this material. Remove all unsound concrete from within the crack/defect to be repaired and thoroughly vacuum all debris and dust from within the crack opening.

MOISTURE VAPOR BARRIER: A suitable moisture barrier must be in place for concrete slabs on-grade. If a moisture barrier is not in place, seasonal variations in ground moisture can cause excessive moisture vapor transmission (MVT) regardless of results measured prior to coating application. For 16 mils of 1150FC, MVT rate must not exceed 12 pounds per 1,000 square feet per 24 hours, as directed by ASTM F1869. The relative humidity (RH) of the slab must not exceed 85%, as directed by ASTM F2170. If there is a moisture situation in excess of the above rate, the use of **Simiron MVB** Moisture Vapor Barrier Primer may be required. Consult a Simiron Representative for details and application procedures.

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	60° - 90°F	16° - 32°C
Surface	60° - 90°F	16° - 32°C
Material	60° - 85°F	16° - 29°C

**Floor temperature must be at least 5 degrees over the current dew point. Higher temperatures will shorten work time.*

APPLICATION EQUIPMENT

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

- Spatula / stir stick.
- Margin trowel, putty knife, or other stiff, straight edge tool.

APPLICATION PROCEDURE

1. Measure out equal volumes of Base and Activator in a pail or on a rigid, flat surface like a piece of cardboard and mix them together thoroughly with a putty knife or spatula until the material is thoroughly mixed and uniform in color. Mix only an amount of material that can be used in the allotted work time. Improper or insufficient mixing may result in product failure.
2. Apply the mixed material using a marginal trowel, putty knife or any other suitable tool. Push the material into the repair area, and remove excess material by scraping flush with surface.
3. When repairing cracks that are less than 1/8" thickness, many epoxies can be placed immediately over the applied crack filler. Alternatively, overcoat the material after it sets up but within 24 hours. If excessive amounts are spread well beyond the repair areas, check the cured areas for any possible amine blush (a whitish, greasy, or film that is not glossy) prior to coating over this material. If a blush is present, it can be removed by any standard type detergent. cleaner prior to topcoating or recoating.

CLEAN UP & DISPOSAL

Clean up mixing and application equipment immediately after use. Use acetone or xylene; do not use alcohol. Follow solvent manufacturer's safety instructions. Be sure to follow all local, state and federal regulations when disposing of materials.

MAINTENANCE

To maintain the appearance and extend the life of the newly sealed surface, it is imperative to have a routine maintenance program. Dirt and debris that is tracked over a finished floor will quickly scratch and dull the surface. Place walk-off mats at entrances. Sweep and mop/scrub floors regularly using soft bristles/pads and a mild cleaner. Some cleaning products and equipment or improper use of these can damage a surface. Remove spills quickly to minimize damage and/or stains. For systems that support parked vehicles or other heavy items on rubber wheels, place a small piece of nonporous material, such as sheet metal or plexiglass between the tires and floor to prevent tire marks. Reapplication may be necessary in heavy traffic areas.



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LIMITATIONS

- ⚠ Do not use as a joint filler substitute.
- ⚠ Color may vary from batch to batch.
- ⚠ Material is not UV stable and may discolor over time.
- ⚠ Wait to overcoat until material is set for filled cracks >1/8" wide or defects that are more than this depth
- ⚠ Do not apply outside of the recommended temperature and humidity range.
- ⚠ Do not delay in using mixed material..
- ⚠ Do not apply over loose or unsound concrete, asphalt or bitumen substrates, glazed tile or nonporous brick and tile, magnesite, copper, metal, polyesters, or elastomeric membranes.

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

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**



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PRODUCT DATA SHEET: 4/2023

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