

# TECHNICAL DATA SHEET

RCF™ Polyurethane Injection Expanding Foam | Revision Date 0/25/2019

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## 1. DESCRIPTION

RCF™ Polyurethane Injection Expanding Foam is a two-component, low viscosity, self-expanding polyurethane foam designed for sealing cracks in structural materials including concrete, masonry and wood through low pressure, gravity feeding injection. It has been designed to expand approximately 18 times its volume in non-confined, dry spaces.

## 2. WHERE TO USE

Use to fill voids and cracks in concrete, masonry or other substrates.

## 3. ADVANTAGES

- Ideal for vertical repairs through injection ports
- Interior and exterior applications
- Conveniently fits dual cartridge epoxy gun
- Expands to fill voids with or without water
- No messy self-mixing through static mixer nozzle
- Low viscosity – easy to inject and flows into small cracks
- Moisture tolerant and blocks moisture

## 4. SHELF LIFE / STORAGE

Shelf Life is 1 year from date of manufacture.

## 5. TECHNICAL DATA

PROPERTY	VALUE (MIXED)
Expansion (in dry conditions, unconfined)	18 times original volume
Color	Yellow - Brown
Solids (%)	100
Brookfield viscosity (cPs, RCVF #6 spindle @ 20 rpm, max)	450
Initial point of expansion/working time (77°F or 25°C)	3 minutes

NOTE: The above properties are typical characteristics not to be considered as specifications.

## 6. CURING TIME

RCF™ Polyurethane Injection Expanding Foam has a working time of 3 minutes at 77°F (25°C). At temperatures below 77°F (25°C) this product will take proportionately longer time to begin expanding. At temperatures above 77°F (25°C) it will take a proportionately shorter time to begin expanding. Thin layers (5 mil) will become tack-free in approximately 45 minutes 77°F (25°C).

## 7. APPLICATION TEMPERATURE

40°F (5°C) to 110°F (43°C). If ambient temperature is below 70°F (21°C), condition the cartridge to 70-75°F (21-24°C) for at least 1 hour before using it.

## 8. CONDITION PRODUCT

When the work environment or substrate falls below 70°F (21°C) condition the product to 70-75°F (21°C - 24°C) prior to use. Temperature will affect the workability and cure time of epoxy.

## 9. APPLICATION

Dispense product through the supplied static mixing nozzles into injection ports.

## 10. LIMITATIONS & WARNINGS

- Minimum age of concrete must be 21-28 days from date of placement depending on curing and drying conditions.
- Subject to discolouration upon exposure to UV light

## 11. MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS

For complete installation instructions on various applications using RCF™ Polyurethane Injection Expanding Foam visit [www.rhinocarbonfiber.com](http://www.rhinocarbonfiber.com) or call Rhino Products for more information at 1-888-684-3889.

## 12. SURFACE PREPARATION

Remove dust, dirt, grease, laitance, curing compounds and other foreign matter by sandblasting, mechanical abrasion or hydro blasting. For drilled holes, clean with a nylon bristle brush. Remove all water and dust with clean compressed air prior to installation. RCF™ Polyurethane Injection Expanding Foam has a low viscosity to reach most cracks, and upon expansion will penetrate all thin cracks.

## 13. CLEAN UP

Clean tools and equipment with Tough Wipes by Rhino Carbon Fiber™, a biodegradable formula that removes and neutralizes the epoxy. Do not allow epoxy to harden on equipment as cured material can only be removed mechanically.

## 14. SAFETY

Please refer to the SDS for RCF™ Polyurethane Injection Expanding Foam published on our Website, [www.rhinocarbonfiber.com](http://www.rhinocarbonfiber.com) or call Rhino Products for more information at 1-888-684-3889. This TDS sheet is not intended to list all Safety and Health Requirements necessary for the installation of these products. All Health and Safety Requirements required by OSHA shall be followed.

## 15. WARRANTY

Rhino Products warrants to the Buyer that this product is in good quality and conforms to the manufacturer's specifications in force on the date of manufacture and when used in accordance with the Installation Instructions and when stored as directed in the technical literature.

Manufacturer cannot warrant or guarantee any particular method of use, performance or application under any particular condition and Buyer is responsible for determining the suitability of intended purpose and assumes all risks therein. RCF™ shall not be liable for any injury, loss, cost of labor or consequential damages either directly, indirectly or incidentally, arising out of the use or misuse of any product sold by RCF™ or another distributor. If the product is proven to be in non-conformance, the Buyer's sole remedy shall be a refund of the purchase price or replacement of product.