

# TECHNICAL DATA SHEET

Rhino Polyurethane Expanding Foam | Revision Date 10/01/2017

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## 1. DESCRIPTION

Polyurethane 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. Polyurethane Expanding Foam has been designed to expand and fill voids.

## 2. WHERE TO USE

Use to bond freshly mixed concrete to hardened concrete. Fill voids and cracks in concrete, masonry. Use as a binder in epoxy mortar. Can be used as an anchoring adhesive.

## 3. ADVANTAGES

- Ideal for vertical repairs through injection ports
- Interior and exterior applications
- Conveniently fits standard caulking tube
- 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)	15 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

Q-Set 263 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. COVERAGE

First Layer: 40 sq ft / gallon (1.0 m<sup>2</sup> /L); Second Layer: 20 sq ft / gallon (0.5 m<sup>2</sup> /L)



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## 10. LIMITATIONS & WARNINGS

### • FOR PROFESSIONAL USE ONLY

- 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.
- Minimum age of concrete must be 21-28 days from date of placement depending on curing and drying conditions.
- Not for use in cracks greater than 1/4" (6 mm) wide
- Subject to discoloration upon exposure to UV light

## 11. MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS

For complete Installation Instructions using Rhino Polyurethane Expanding Foam visit our Website, [www.rhinocarbonfiber.com](http://www.rhinocarbonfiber.com) or call Rhino Products for more information at 1-888-684-3889.

## 12. SURFACE PREPARATION

Surface to be bonded must be clean and sound. Minimum age of concrete must be 21-28 days from date of placement depending on curing and drying conditions. 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.

Rhino Polyurethane Expanding Foam has a low viscosity to reach most cracks, and upon expansion and will penetrate all thin cracks. 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.

## 13. CLEAN UP

Clean tools and equipment with Tough Wipes by Rhino, a biodegradable formula that removes epoxy. Do not allow Polyurethane to harden on equipment.

## 14. SAFETY

Please refer to the MSDS for Rhino Polyurethane 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.

## 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 nonconformance, the Buyers sole remedy shall be a refund of the purchase price or replacement of product.

