

# TECHNICAL DATA SHEET

RCF Slow-Curing Saturant-Adhesive Epoxy | Revision Date 2/13/2023

8383 Riley Street,  
Zeeland, MI USA 49464  
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## 01: PRODUCT IDENTIFICATION

RHINO PRODUCTS USA  
8383 Riley Street,  
Zeeland, MI 49464 USA

Product Name: RCF Slow-Curing Saturant-Adhesive Epoxy

## 02: DESCRIPTION

RCF Slow-Curing Saturant-Adhesive Epoxy is a two-component, 100% solids, moisture-tolerant, high strength, low modulus, multi-purpose epoxy binder. This system adds increased awareness, improved friction, aesthetics, safety and long term durability.

## 03: WHERE TO USE

Used as an epoxy binder for pavements on Portland cement concrete, asphalt pavements and other approved substrates.

## 04: ADVANTAGES

- High strength, low modulus epoxy binder
- Rapid cure return to traffic formula
- Independant testing lab certification
- Convenient 1:1 mix ratio by volume
- Hand or machine application
- Low maintenance
- Made in the USA

## 05: DATA

Results may differ based upon statistical variations depending on mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## 06: PHYSICAL PROPERTIES

Storage Conditions	Store dry at 40° - 95°F (5° - 35°C)
Shelf Life	2 years in original, unopened containers
Conditioning	65°F-85°F (18°C-29°C) before using
Mix Ratio	1:1 by volume
Viscosity	1,500 cP
Gel Time (60g)	18 minutes
Shore D Hardness	70
Tack Free Time	(75°F/24°C): <3 hours
Tensile Strength (ASTM D638)	2,800 psi (19.3 MPa)
Bond Strength (ASTM C882)	2 day cure 2,000 psi (13.8 MPa) 14 day cure 2,800 psi (19.3 MPa)
Compressive Strength (ASTM C579)	3 hour cure 1,500 psi (10.3 MPa) 24 hour cure 5,000 psi (34.5 MPa)
Tensile Elongation (ASTM D638)	40%
Bond Strength (ASTM C1583/ACI 503R)	300 psi (2.0 MPa)
Flexural Strength (ASTM D790)	3,000 psi (20.9 PMA)
Shrinkage (ASTM D2566)	0.2%
Thermal Compatibility (ASTM C884)	Pass
Heat Deflection Temperature (ASTM D648)	120°F (49°C)
Absorption (ASTM D570)	0.2% (24 hr)
Chloride Ion Permeability (AASHTO T277)	0.0 coulombs

### CURING TIME (HRS)

Temperature (°F)	40	45	50	55	60	65	70	75	80	90	100
RCF Slow-Curing Saturant-Adhesive Epoxy	17	13	11	9	7	6	4.5	3.5	3	2.5	1.5

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## 07: LAYOUT: SURFACE PREP

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Refer to Rhino Carbon Fiber application instructions.

## 08: APPLICATION

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Refer to Rhino Carbon Fiber application instructions.

## 09: CLEAN UP

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Collect with absorbent material. Flush area with water. Dispose of in accordance with local, state and federal disposal regulations. Uncured material can be removed with Natural Clean or other approved solvent. Cured material can only be removed mechanically.

## 10: ADDITIONAL NOTES

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Maximum substrate and ambient temperature is 50°F (10°C) for all applications. Maximum substrate and ambient temperature is 95°F (35°C) for hand mix or semi-automated installations. Do not thin. Solvents will prevent proper cure. Use oven-dried aggregate. Material is vapor barrier after cure. Surface should be visibly dry. No standing water. Concrete moisture content must be less than 5% when measured using a multi-pin moisture meter. Condition material to 65°F - 85°F (18-29°C) for optimum application. Minimum age of concrete 21- 28 days, depending on mix design. Minimum age of asphalt is 30 days and 75% aggregate exposure. Do not place the saturant adhesive surface treatment if the material cannot be applied and cured with-in 2.5 hours of placement and opened to traffic.

Application rates will vary depending on substrate.

Epoxy Binder: 25-30 sq. ft./gallon (0.61-0.73 m<sup>2</sup> /L)

Colored Aggregate Rate: 2–2.5 lb./sq. ft. (9.76–12.20 kg/sq. m)