

# TECHNICAL DATA SHEET

RCF™ High Strength Anchoring Epoxy Paste | Revision Date 05/05/20 21

8383 Riley Street,  
Zeeland, MI USA 49464  
P: +1 888 684 3889  
E: info@rhinocarbonfiber.com

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## 1. DESCRIPTION

RCF™ High Strength Anchoring Epoxy Paste is a two-component, 100% solids, moisture-insensitive, high strength, high modulus, multi-purpose liquid epoxy gel adhesive. It meets the current ASTM C881 and AASHTO M235 T types I, II, IV & V Grade 3, Classes B & C specifications. It has passed 4 million cycles of simulated seismic tension test.

## 2. WHERE TO USE

Use as an adhesive for setting/bonding subsurface or external reinforcements to concrete masonry or other substrates. Can also be used for reinforcing steel dowels, threaded rods, bolts, and inserts into existing concrete. Use as a multipurpose bond adhesive for structural bonding fresh or hardened concrete to hardened concrete, sealing cracks, setting injection ports prior to injection grouting, and as a pick-proof sealant.

## 3. ADVANTAGES

- Moisture tolerant
- High-strength, high modulus structural adhesive
- Made in America
- Convenient 1:1 mix ratio by volume
- Rapid cure formula
- Agency Independent testing lab certification
- Solvent free
- No-sag gel consistency

## 4. SHELF LIFE / STORAGE

24 month shelf life when stored in unopened containers in dry conditions and stored at 40°F-95°F (4°C-35°C)

## 5. TECHNICAL DATA

RCF™ High Strength Anchoring Epoxy Paste Technical Data	
Storage Conditions:	40°F – 95°F (5°C – 35°C).
Condition material to:	65°F – 85°F (18°C – 29°C) before using.
Mix Ratio	1:1 by volume
Viscosity	¼ inch no-sag gel
Gel Time (60 g mass)	10 minutes
Tack Free Time (73°F or 23°C)	2 to 3 hours
Tensile Properties (ASTM D638), 7 day cure	
Tensile Strength:	7,500 psi (51.7 MPa)
Tensile Elongation:	1.2%
Bond Strength (ASTM C882)	
1 day cure:	2,000 psi (13.8 MPa)
7 day cure:	2,500 psi (17.2 MPa)
Compressive Properties (ASTM D695), 7 day cure	
Compressive Strength:	12,500 psi (86.2 MPa)
Compressive Modulus:	300,000 psi (2,070 MPa )
Shear Strength (ASTM D732)	2,800 psi (19.3 MPa)
Shrinkage on Cure (ASTM D2566)	0.001
Thermal Compatibility (ASTM C884)	Pass
Heat Deflection Temperature (ASTM D648)	140°F (60°C)
Water Absorption (ASTM D570)	0.1% (24 hr)

\*NOTE: Epoxy cure is affected by temperature. Low Temperatures will increase cure time, higher temperatures with decrease cure time.

## 6. CONDITION PRODUCT

Condition cartridge and contents to a temperature of 65°F to 95°F (18°C - 35°C) for easier dispensing.

## 7. LIMITATIONS & WARNINGS

Minimum substrate temperature is 40°F (5°C). Do not thin. Solvents will prevent proper cure.

## 8. MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS

For complete installation instructions on various applications using RCF™ High Strength Anchoring Epoxy Paste visit [www.rhinocarbonfiber.com](http://www.rhinocarbonfiber.com) or call Rhino Products for more information at 1-888-684-3889.



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