

# RHINO CARBON FIBER™ CORNER WALL REPAIR KIT INSTRUCTIONS

Revision Date 05/05/2021

8383 Riley Street,  
Zeeland, MI USA 49464  
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01

## WHAT COMES IN THE CORNER WALL REPAIR KIT



### KIT INCLUDES

- (4) 10 foot 6" 400 GSM unidirectional carbon fiber straps
- (4) Tubes of Saturant-Adhesive Epoxy
- (4) Static epoxy mixing nozzles
- Gloves and Instructions

### PRODUCTS COMMONLY USED WITH CORNER REPAIR



Rhino Carbon Fiber™ Dual Epoxy Gun  
300/300 ml or 300/150 ml gun



Tough Wipes by Rhino Carbon Fiber™  
Removes Epoxy!

## RECOMMENDED POWER TOOLS

### 5-Inch Surface Grinding Dust Shroud Kit



Use for grinding foundation wall  
\*\*USE DIAMOND CUP WHEEL

### 10-Gallon HEPA Dust Extractor



Collects dust while attached to  
grinder and shroud tools

### Tuck Point Grinder with Dust Shroud Attachment



Use to tuckpoint joints of cracks  
\*\*USE DIAMOND EDGE BLADE

## YOU WILL ALSO NEED...

- Safety goggles
- Respirator mask
- Hard hat
- Coveralls
- Drop cloth
- Plastic putty knife
- Plastic
- Marker
- Hydraulic cement
- Epoxy gun
- Measuring tape

## SAFETY WARNINGS

Please read and follow safety procedures for all tools and wear proper safety equipment during installation.

While using power tools, follow all EPA/OSHA guidelines for lead paint removal and respiratory protection. For more information visit [www.epa.gov](http://www.epa.gov) or [www.osha.gov](http://www.osha.gov).



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PLEASE READ ALL DIRECTIONS CAREFULLY & WEAR SAFETY GOGGLES BEFORE INSTALLING



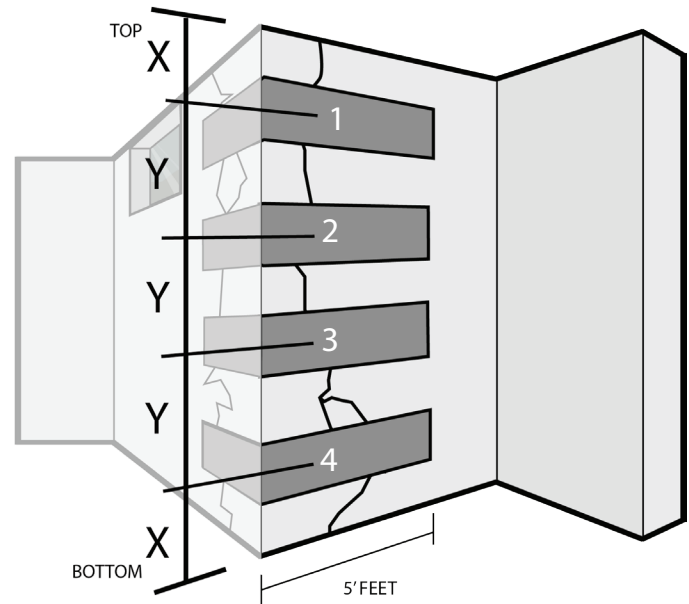
## 01 PREP

- To find the spacing of the straps reference the spacing guide for reference (below)
- Measure the height of your basement wall (round to the nearest foot)
- Start at the top of the wall and measure down "X" to find location of the first strap (number 1 in diagram)
- Measure "Y" to find 2nd mark and so on
- On block wall repairs, carbon fiber straps must be installed to the face of the block, not over horizontal mortar joints

Tools: marker and measuring tape

SPACING GUIDE

7' wall	X= 15"	Y=1.5'
8' wall	X= 1'	Y=2'
9' wall	X= 1.5'	Y=2'
10' wall	X=2'	Y=2'



## 02 GRIND

- Grind 5 feet along each side of the wall starting at the corner.  
Note: For block walls use existing mortar joints as a guide.
- Grind the entire surface of market areas, where the straps will be installed, to achieve a bare foundation
- Roll the grinder over the corner to provide a minimum 1/2" radius
- You must follow all EPA guidelines.  
Visit [www.epa.gov/getleadsafe](http://www.epa.gov/getleadsafe) for all guidelines

Tools: grinder, dust extractor, safety glasses, mask



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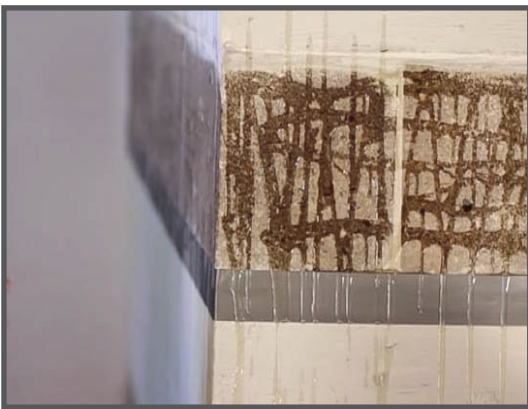
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## 03 EPOXY PREP (Optional)

- Cut strips of plastic and tape them to the wall between the strap locations.

Tools: tape, scissors, plastic



## 04 MOUNT

- Starting at the top carbon fiber location, apply epoxy evenly to the entire prepped area
- Mount carbon fiber to the wall keeping it as straight as possible.  
(fold carbon fiber accordion style or keep it rolled up as you work across the wall)
- Using a plastic putty knife, work carbon fiber into epoxy to ensure proper saturation.
- Apply a light coat of Saturant-Adhesive Epoxy to the surface of the carbon fiber and spread to ensure 100% saturation

Tools: gloves, epoxy gun, carbon fiber, epoxy, plastic putty knife (optional)



01: Mount carbon fiber to the wall



02: Work carbon fiber into epoxy.  
Add more epoxy if necessary.



03: Repeat process to additional sections



## 05 CLEAN UP (Optional if you completed step 3)

- Once epoxy is set and no longer running remove tape and plastic
- Walls can be painted for aesthetic purposes once the epoxy has covered

Tools: gloves



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# SAFETY DATA SHEET

RCF™ Saturant-Adhesive Epoxy | Revision Date 0/5/05/2021

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## 01: PRODUCT & COMPANY IDENTIFICATION

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

Product Name: RCF™ Saturant-Adhesive Epoxy  
Common Name: Polyamine

Product Code: RCF-EPXA  
Chemical Family: Polyamine  
Synonyms: Amines Liquid Corrosive  
Product Use: Epoxy Bonding Agent  
Emergency Phone: CHEMTREC 1 800 424 9300

## 02: HAZARDS IDENTIFICATION

GH Classification

HEALTH HAZARD	CATEGORY
Skin Corrosion	1B
Serious Eye Damage	1
Skin Sensitization	1

Hazard Statement

H314: Causes severe skin burns and eye damage  
H317: May cause an allergic skin reaction

Precautionary Statement

Inhalation: Harmful if inhaled and may cause delayed lung injury. Can cause severe respiratory tract burns. Risk of serious damage to the lungs. May cause nose, throat and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.

Skin Contact: Causes skin burns.

Eye Contact: Causes eye burns. May cause blindness. Severe eye irritation.

Ingestion: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

Prolonged exposure: Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat, Eye disease, Skin Disorders and Allergies.

## 03: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:

Cas#	Chemical Name	%	OSHA PEL	ACGUH TLV
Component A				
25085-99-8	Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	>80%	NE	NA
68609-97-2	Aliphatic Glycidyl Ether <20% NE NE			
CE330 Part B				
84852-15-3	Nonylphenol	>40%	NE	NE
140-31-8	Aminoethylpiperazine	<10%	NE	NE
9046-10-0	Polyoxypropylenediamine	<30%	NE	NE
90-72-2 2,4,6	Tri (dimethylaminomethyl)phenol	<10%	10 mg/m3	5 mg/m3
112-24-3	Triethylenetetramine	<10%	NE	NE

None of the remaining components are considered a hazardous material or carcinogen (1910.1200 Hazard Communication (d) 4.)

NE= Not Established      NA=Not Applicable

## 04: FIRST AID MEASURES

General Advice: Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped trained personnel should begin cardiopulmonary resuscitation immediately.

Inhalation: If respiratory irritation occurs, go to fresh air, flood work area with fresh air. If irritation continues seek medical attention.

Skin Contact: Remove contaminated clothing and shoes. Wash affected area(s) thoroughly with soap and water. If irritation persists, seek medical attention. SOLVENTS SHOULD NOT BE USED because they carry the irritant into the skin.

Eye Contact: Flush the eyes with plenty of water for at least 15 minutes. If necessary, gently hold eyelids open during the flush. Immediately seek medical attention.

Ingestion: Obtain immediate medical attention. Do not induce vomiting. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomit into the lungs.

## 05: FIRE FIGHTING MEASURES

Special Fire Fighting Procedures: none. Avoid breathing smoke. NFPA Class B-C extinguisher (dry chemical or foam) for class IC fires. Water spray may be ineffective on fire but can protect fire-fighters and cool closed containers. Use fog nozzels if water is used. Use supplied breathing masks.

Protection of firefighters: Fire may produce irritating, corrosive and/or toxic gases. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots and in enclosed spaces SCBA. Structural firefighters protective clothing will only provide limited protection.

**RCF**  
REINFORCEMENT PRODUCTS

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## 06: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Keep people away from and upwind of spill/leak. Avoid inhalation of vapors and spray mists. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Follow facility/company's emergency plans.
Small Spills:	Absorb with an inert material (sand, vermiculite). Sweep or scoop up and put into disposal containers. Flush area immediately with water (prevent water from entering waterways).
Large Spills:	Dike area far ahead of liquid spill for later disposal. Do not release into sewers or waterways. Absorb with an inert material (sand, vermiculite). Sweep or scoop up into disposal containers. Flush area immediately with water (prevent water from entering waterways)
Regulatory Requirements:	Follow applicable OSH regulations (29 CFR 1910.120). Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area or until spill clean-up has been completed.

## 07: HANDLING AND STORAGE

Handling Precautions:	For professional use only. Avoid eye/skin contact. Wash after using and before eating or smoking. Avoid breathing vapors. Use as directed. Avoid uncontrolled mixing with other mixtures (strong acids, bases and oxidizers). Do not use solvent to thin. Respiratory protection is required when ventilation is inadequate. NIOSH/OSHA approved respirators should be provided and worn.
Storage Requirements:	Store in cool/dry location. Do not allow material to freeze, as product may be damaged. Store away from sparks and open flames.

## 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

HMIS PP, H I Splash Goggles, Gloves, Apron, Vapor Respirator	
VENTILATION:	Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred because it prevents containment dispersion into the work area controlling it as its source.
RESPIRATORY PROTECTION:	Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and if necessary, wear OSHA/NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen.
PROTECTIVE CLOTHING/EQUIPMENT:	Wear chemically protective gloves, boots and aprons to prevent prolonged or repeated skin contact. Wear protective goggles and face shield, per OSHA eye and face protection (29 CFR 1910.133).
CONTAMINATED EQUIPMENT:	Separate contaminated work clothing from street clothing. Launder before reuse. Remove this material from your work shoes and clean personal protective equipment.
OTHER PRECAUTIONS:	Never eat, drink or smoke in work areas.

This material is not listed by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.

## 09: PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Part A (Clear to light amber)	Part B (Amber)	Evap Rate:	Slower than Butyl Acetate
Physical State	Liquid		Viscosity:	Brookfield 500 cps (Part A) and 80 cps (Part B)
Boiling Point:	ND		Percent Volatile:	0
Odor:	Part A (Mild)	Part B (Amine odor)	Flash Point:	>200° F
Freezing/Melting Point:	ND/NE		Flash Point Method:	Pensky Martens Closed Cup
pH:	ND		Burning Rate:	No data available
Solubility:	Insoluble		Autoignition Temp:	No data available
Vapor Pressure:	NE			
Vapor Density:	(Air = 1) > 1			
Spec Grav./Density:	Part A (1.19)	Part B (.97)		
VOC:	0			

## 10: STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	None
Materials to Avoid:	Strong oxidizers, acids and bases
Hazardous Decomposition Products:	CO, CO2, NOX
Hazardous Polymerization:	None

## 11: TOXICOLOGICAL INFORMATION

Inhalation:	Harmful if inhaled and may cause delayed lung injury. Can cause severe respiratory tract burns. Risk of serious damage to the lungs. May cause nose, throat and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.
Skin Contact:	Causes skin burns.
Eye Contact:	Causes eye burns. May cause blindness. Severe eye irritation.
Ingestion:	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.
Prolonged exposure	Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat, Eye disease, Skin Disorders and Allergies.

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Prolonged contact may result in chemical burns and permanent damage.



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## 12: ECOLOGICAL INFORMATION

Aquatic toxicity: Very toxic to aquatic organisms, may cause long term adverse effects in the  
Toxicity to other organisms: No data available

## 13: DISPOSAL CONSIDERATIONS

When disposed of properly, this material does not meet RCRA classification or listing for hazardous waste. Never dispose of liquid to a landfill. Spilled material should be stabilized or solidified prior to disposal. Once stabilized/solidified, the material may be disposed of through normal means. Certain localities and state laws have specific disposal requirements for non-hazardous industrial chemicals. Consult local municipal authorities, landfill personnel or disposal companies for details prior to any disposal activity. Always follow local, state and federal regulations.

## 14: TRANSPORT INFORMATION

Part A: Not hazardous for domestic ground shipment  
Part A IMDG: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (epoxy resin) 9 III MARINE POLLUTANT

Part B: UN 1760 Corrosive liquids, n.o.s. (nonylphenol) 8 III (ERG #154)  
Part B IMDG: UN 1760 Corrosive liquids, n.o.s (nonylphenol) 8 III MARINE POLLUTANT  
Segregation Group: 18 Alkalies  
Placards required over 1,000 lbs.

## 15: REGULATORY INFORMATION

This product is a "Hazardous Chemical" as defined by the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 (SARA)		
Hazard Categories	Immediate Hazard	Yes
	Delayed Hazard	Yes
	Fire Hazard	No
	Pressure Hazard	No
	Reactivity Hazard	No
Section 302 Extremely hazardous substance		No
Section 311 Extremely hazardous chemical		Yes

State Regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

## 16: OTHER INFORMATION

Rating Scale: 0-4  
HMIS II ratings: Health = 3, Fire = 1, Reactivity = 2  
HMIS III ratings: Health = 3, Fire = 1, Physical Hazard = 2  
NFPA ratings: Health = 3, Fire = 1, Reactivity = 2

The information and recommendation in this document are based on the best information available to us at the time of preparation. We make no other warranty, expressed or implied, as to its correctness or completeness, or as to the results or reliance of this product.

This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

User Responsibility: The information in this document cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions, in addition to those described herein, are required. Any health hazard and safety information herein should be distributed to customers or employees as applicable.

## 17: DISCLAIMER

The information contained herein is, to the best of our knowledge and belief, accurate and current as of the date of this SDS. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representation or warranties, either expressed or implied, as to its correctness or completeness, or as of merchantability, fitness for a particular purpose, or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers or as to the results or reliance of this product. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

END OF SDS DOCUMENT