

Rhino Concrete Repair Kit – Part # 60600-K consists of:

Part A – Rhino Concrete Repair Iso, Part # 60601

Part B – Rhino Concrete Repair Resin, Part # 60602

DESCRIPTION: Rhino Concrete Repair is an advanced urethane chemistry designed for concrete repair. The unique liquid properties allow the material the versatility to repair hairline and large cracks as well as spalls and pop-outs without any difficulties. The material can be trowelled to a feather-edge using conventional concrete application tools. With its low viscosity, Rhino Concrete Repair can penetrate deep into cracks providing excellent adhesion which allows it to become a permanent repair for non-moving concrete. Rhino Concrete Repair can be mixed with aggregate to repair large holes or a deeply spalled area. The temperature versatility of Rhino Concrete Repair allows it to be an excellent choice for both interior and exterior repairs, it can even be used in freezers.

TYPICAL USES: Applications include garage floors, driveways, warehouses, walkways, wastewater treatment tanks, fuel storage tanks, etc. One gallon of bulk mix will yield 230 cubic inches (300 lineal feet at 1/2" wide by 1/4" deep) without sand fill. One gallon bulk mix will yield up to 690 cubic inches (600 lineal feet at 1/2" wide by 1/4" deep) when mixed with one part dry silica sand.

FEATURES & BENEFITS:

- Sandable/grindable
- High compression strength
- Low viscosity for greater mechanical bond
- Excellent temperature and moisture tolerance
- Quick set time
- No odor when cured
- Compatible with the FastFloor® base coat and other Rhino Linings® spray lining products

CHEMICAL PROPERTIES:	Test	Isocyanate (A)	Resin (B)
Specific Gravity (grams/cc)	ASTM D-792	1.17	1.01
Viscosity, cps		90	90
Solids by Volume/Weight		100%	100%
Volatile Organic Compounds		0.046 lbs/gal (5.5 g/l)	
Mix Ratio, parts per volume		1	1
Mix Ratio, parts per weight		109	100
Gel Time @ 75°F (22°C)		5 minutes	
Tack Free @ 75°F (22°C)		10 – 15 minutes	
Cure		15 minutes	
Odor		mild	amine
Freezing Point		40°F	
Color	gray (when cured)	brown	gray
Shelf Life - Unopened Containers		12 months	12 months

TYPICAL PHYSICAL PROPERTIES*:	Test	Result
Hardness (Shore D)	ASTM D-2240	70±5
Tensile Strength (psi)	ASTM D-412	4500
Elongation (%)	ASTM D-412	6
Impact Resistance (in/lbs)	ASTM D-256	160
Density (lb/ft ³)	ASTM D-1622	69 – 70
Compressive Strength (psi) – Non filled	ASTM D-695	3800
– Sand filled	ASTM D-695	9000
Taber Abrasion Resistance (mg of loss/1000 cycles) CS17 Wheel; 1000 grams weight	ASTM D-4060	11
Shrinkage		none

RHINO® CONCRETE REPAIR *(continued)*:

SURFACE PREPARATION: Remove all debris, oil and/or other contamination from the repair area. Chase all cracks using an edge grinder to open up. For best results, clean rough concrete should be exposed.

MIXING INSTRUCTIONS: Always premix both containers prior to use.

APPLICATION INSTRUCTIONS: Prime large cracks and spalls with Rhino Concrete Repair then fill with a blend of 30 mesh, 60 mesh, dry silica sand and Rhino Concrete Repair mixed at a 50 parts Rhino Concrete Repair to 50 parts sand mixture or 25 parts Rhino Concrete Repair to 75 parts sand mixture. Once repair area is filled, broadcast sand over the top of material. Note: (If area is wet and damp, the area should be dried using a torch or heat gun. Prime with Rhino Concrete Repair and allow to set 5 – 8 minutes prior to completing repair.) Material should be level with concrete then finished. Repair by running a trowel across material (1) one time. Do not overwork as you will cause a rough finish. Repair will be ready for traffic in 15 minutes at 70°F (21°C).

SURFACE AND TOOL CLEAN UP: Wipe any excess Rhino Concrete Repair from concrete, and tools, etc. with a cloth before it cures. Once Rhino Concrete Repair is cured, use diamond cup grinder to remove it.

NOT RECOMMENDED FOR: Bridging moving joints

CHEMICAL RESISTANCE: Rhino Concrete Repair is not designed to be used without being coated by another Rhino™ thick or thin film coating. It is not designed to provide primary chemical resistance.

SUBSTRATES: Designed as a repair material for cracks and spalls in concrete. Refer to application instructions.

HOW SUPPLIED: Rhino Concrete Repair is supplied in 2 gallon kits.

STORAGE: 55° – 85°F (12° – 30°C)

SAFETY PRECAUTIONS: Health Considerations: Consult the Rhino Linings® Safety Data Sheets (SDS)

Chemical systems require the use of proper safety equipment and procedures. Please follow the Rhino Linings® product SDS and Safety Manual for detailed information and handling guidelines.

For Your Protection: The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Rhino Linings Corporation. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Rhino Linings Corporation will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors.

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