



TECHNICAL DATA SHEET

RX-2



REPAIR MATERIAL

RX-2 is a rapid set, high strength ultra low viscosity urethane repair material. This two part, 1:1 system is 100% solids and designed for rebuilding and repairing broken control joints and spalled concrete surfaces very quickly.

APPLICATIONS

- Rebuilding control joints
- Traffic area spalls & crack repairs
- Grade matching
- Floor repair
- Freezer/Cold Storage Thresholds
- Fill & repair spall before coating
- Used to “knit” cracked slabs

ADVANTAGES

- Meets USDA and FDA Requirements
- Cures From -20°F to 130°F
- “Drive-Over” in 20-30 minutes
- Produces High Strength Quickly
- Self priming and self leveling
- Fast initial set with rapid gain to final strength

LIMITATIONS

- Do not thin. Solvents will prevent proper cure
- Avoid exposure to moisture prior to curing
- Material is a vapor barrier after cure
- Concrete should be at least 28 days old prior to application

PHYSICAL PROPERTIES

Viscosity (mixed)	19 cps
Shore “D” Hardness (ASTM D-2240)	67 to 72D
Tensile Strength, PSI (ASTM D412)	3950
Pot Life 100 grams at 74°F	180 Seconds
Elongation % (ASTM D-412)	3%-4%
Compressive Strength (ASTM D-695)	
Material Neat	4200 psi
Material with Sand	4980 psi

Available in

- 22 oz Cartridges
- 2 Gallon Kits
- 10 Gallon Kits

Shelf Life

1 year in original unopened container.

Storage Conditions

Recommended storage temperature is between 55°F to 95°F.

Consistency

Ultra-low Viscosity

Pot Life

Approx. 180 Seconds
(100 gram mass)

Appearance

Off-white
Custom color matching available

RX-2



REPAIR MATERIAL

COVERAGE INFORMATION

To calculate the amount of material required to make a repair, calculate cubic inches by multiplying the approximate length x width x height. Always remember to convert feet to inches. Add 10-15% to account for waste and overfill.

COVERAGE RATE (LF PER 22 OUNCE CARTRIDGE)

CRACK WIDTH	
1"	
CRACK DEPTH	
1/8"	154 lf/gal
1/4"	77 lf/gal
1/2"	39 lf/gal

CARTRIDGE CALCULATION

Divide lf/gal by 5.8 to calculate coverage rate per cartridge:

$$\underline{154} \text{ lf/gal} \div 5.8 \text{ oz} = 26.55 \text{ cartridges}$$

CHEMICAL RESISTANCE

Test Procedure; ASTM D-1308 @72°F

- R= Recommend
- RC = Recommend Conditional = Some swelling or discoloration
- N = Not Recommend
- 1 = Some discoloration only

Chemical

- Acetic Acid 10 %
- Acetone
- Battery Acid (Sulfuric Acid)
- Brake fluid
- Chlorine (2,000 ppm in water)
- Citric Acid
- Gasoline
- Hydraulic Oil
- Methanol (5%) Gasoline
- Motor Oil
- Toluene
- Vinegar
- Water
- Xylene

Result

- R
- RC
- RC
- R
- R
- R
- R-1
- RC
- R-1
- RC
- R
- R
- R

Spalls/Cracks: Clean the area of debris and contaminants that would act to debond RX-2; oils, loose materials, dirt, rubber etc. Expose clean rough concrete for best results.

If using a saw to cut concrete and clean the crack, remove all the dust from the cut out area. For large spalls, cut a vertical edge, minimum 1/2" deep, around perimeter of spall. Remove all dust from the cut out area with a HEPA filtered vacuum and make sure the area to be repaired is dry. Where the crack is deep, apply product to the bottom of the crack and work up in layers: first apply product then sand into the product, then more product & sand. Repeat the steps in layers until reaching the finished grade.

Filler: Sand filler should have minimal moisture content and range in grit size from 12 to 60. Pea gravel can be used on very large spalls. Concrete dust, unsanded grout, and other cementitious materials such as underlayment or overlays can also be used when desired.

Grinding to finish grade: Allow RX-2 to set about 30 minutes or until hard. For best results on spall repairs use a flexible grinding wheel and grind flush.

SAFETY & HANDLING

SDS will be mailed immediately upon receipt of a purchase order or upon request. All personnel should read and understand product Safety Data Sheets provided. Long sleeved overall or disposable overalls, rubber gloves, splash shields, rubber or leather boots should be worn. Do not use near high heat or open flame. Do not take internally. Keep out of the reach of children.

DISPOSAL & CLEAN UP

Empty containers must be drip free. Cured product may be disposed of without restrictions. Excess liquid 'A' and 'B' material should be mixed together and allowed to cure, then disposed of in the normal manner. Cured materials may be stripped or peeled from plastic tools and containers. It is recommended that metal tools be cleaned within one hour of use by cutting or peeling cured material from tool.

WARRANTY

HTS products are free of manufacturing defects. When applied in accordance with HTS'S directions and tested in compliance with ASTM and HTS's standards, RX-2 will meet current published physical properties. There are no other warranties by HTS of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. HTS Corporation shall not be liable for damages of any sort (including remote or consequential damages) resulting from any claimed breach of any warranty, whether expressed or implied. This includes any warranty of merchantability or fitness for a particular purpose or from any other cause whatsoever.

APPLICATION RECOMMENDATIONS

Condition material to at least 70°F before use. If needed, tint should be added to "B" side container only and mixed for at least 3 minutes. For bulk use, measure equal parts "A" and

"B" into two separate plastic mixing containers. Pour measured "A" and "B" separately into in a third plastic mixing container and stir for at least 20 seconds.



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