



TECHNICAL DATA SHEET

# RAPID MENDER

3 COMPONENT | 1 TO 1 MIX RATIO EPOXY

## PRODUCT DESCRIPTION

E2U Rapid Mender™ is a high-penetration two-part polyurea that when combined with an optional grit size silica sand creates a VERY strong concrete spall, joint and crack filler. This nearly water-thin formula to fill in imperfections in your concrete surface prior to applying decorative coatings for a smooth flat, imperfect surface. Can be mixed and applied in a wide range of temperatures but when applied at approx. 72 degrees, time to grind flush w/surface will be approximately 20 minutes.

## PRODUCT DATA

### AVAILABLE COLORS

- Standard Amber

### PACKAGING

80020	2 GALLON KIT
80050	10 GALLON KIT

## TECHNICAL INFORMATION

PROPERTY	VALUE	REFERENCE
Colors	Grey, Natural Off-White. Special Order Yellow, Red, and Custom.	
Compressive Strength	3,883-6,681 psi depending on sand load.	ASTM D695-15
Tensile Strength	3,385 psi	ASTM D638-14
Bond Strength	1,984 psi	ASTM 882-99
Elongation	7% Modulus 150.7 ksi	ASTM D638-14
Hardness	72D	Shore D
Surface Tension	0.026 N/m	Wilhelmy Plate
Solids	98%	
Viscosity	Approx. 8 cps	
V.O.C.	5.5 g/l	Mixed
Cure Time	Approx. 20 min. at 72° F (Gel 6-7 min.)	Tac Free
Application Temperature Range	-25° F to 100° F	See Tech Service for cold temperature application.

### CURING AND FINISHING

Cure time is 20-30 minutes at 72° F. Repairs can be ground smooth, polished or coated after one hour.

### LIMITATIONS

Concrete must be clean, dry and free of dirt and contaminants. Use mechanical methods to remove loose concrete and profile hard trowled surfaces. Use surface applied heat to remove ice or frost if present.



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## APPLICATIONS

- Repairing cracks, where future movement is not anticipated.
- Restoring integrity to distressed concrete.
- Repairing spalls and pop-outs in concrete.
- Securing bolts, equipment, or railings into concrete.
- Vertical repairs when combined with specified sand.
- Repairing concrete surface imperfections prior to coating.
- Repairing cracks and spalls prior to coating.
- Repairing polished concrete.
- Polishing pit grout.
- Freezer thresholds and floor repairs.

## MIXING

1 to 1 mix ratio. In measuring cup pour out equal parts of A & B and slowly drill stir while adding 2 parts Silica Sand for body and added strength. i.e. -2 ounces of A, mixed with 2 ounces of B for a total of 4 liquid ounces, you will now add 8 ounces of silica sand and thoroughly drill stir for 30-45 seconds...POUR IMMEDIATELY...mix only what you can use in 3-5 minutes. - For a lower - more pourable viscosity, less aggregate may be added.

NOTE: 30 grit silica sand is the standard size generally added but you can choose to use a smaller grit such as 60 or 90 for an even finer and smoother finish.

## ADVANTAGES

- Ultra low viscosity allows deep penetration into concrete.
- When combined with manufactured sand, Rapid Mender™ will form a tough 4500 psi polymer concrete with similar properties to existing concrete that will stay pliable over time.
- Safe to use. Materials react quickly.
- Self-leveling or may be combined with sand and worked with a trowel. Stays workable longer than similar materials.
- Completely cures in 20 minutes after application at 72° F. Will also cure in subzero environments.

## LIMITATIONS

Rapid Mender™ is designed for use on interior or exterior concrete surfaces. It is intended for dormant cracks, dormant contraction joints, spall repair and more. Rapid Mender™ is designed to restore the concrete back to original design parameters. Underlying causes of cracking or deterioration should be addressed before making repairs. It must be applied to concrete free of surface moisture, dirt or contaminants.

### WARNING! SLIP AND FALL PRECAUTIONS

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slipresistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. E2U recommends the use of angular slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. E2U or its sales agents will not be responsible for injury incurred in a slip and fall accident.

### Handling Precautions

Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin. Some individuals may be allergic to epoxy resin. Protective gloves and clothing are recommended.

### WARRANTY

E2U products are warranted for one year after date of purchase. Please refer to the Limited Material warranty for additional clarification.



MADE IN USA

**KEEP OUT OF REACH OF CHILDREN**