



TECHNICAL DATA SHEET

ROYAL REPAIR

PRODUCT DESCRIPTION

ROYAL REPAIR 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.

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.

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.

CURING AND FINISHING

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

PROPERTY

Colors
Compressive Strength
Tensile Strength
Bond Strength
Elongation
Hardness
Surface Tension
Solids
Viscosity
V.O.C
Cure Time
Application Temperature Range

VALUE

Grey, Natural Off-White.
Special Order Yellow, Red, and Custom.
3,883-6,681 psi depending on sand load.
3,385 psi
1,984 psi
7% Modulus 150.7 ksi
72D
0.026 N/m
98%
Approx. 8 cps
5.5 g/l
Approx. 20 min. at 72° F (Gel 6-7 min.)
-25° F to 100° F

REFERENCE

ASTM D695-15
ASTM D638-14
ASTM 882-99
ASTM D638-14
Shore D
Wilhelmy Plate

Mixed
Tac Free
See Tech Service for cold temperature application.



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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.

LIMITATIONS

ROYAL REPAIR is designed for use on interior or exterior concrete surfaces. It is intended for dormant cracks, dormant contraction joints, spall repair and more. ROYAL REPAIR 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 contaminates.

LIMITATIONS

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

PACKAGING

3 GALLON KITS

PART A 2 GAL
PART B 1 GAL

3 GALLON KITS

PART A 2 GAL
PART B 1 GAL

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. COATING KINGS 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. COATING KINGS 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

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



MADE IN USA