

## RAPID SET 100 CRACK FILLER

### SOLVENT BASED URETHANE CRACK & SPALL FILLER



Rapid Set 100 is a very fast setting, high strength ultra low viscosity concrete repair material. This two-part, hybrid urethane system is designed for rapidly rebuilding deeply spalled or damaged concrete surfaces, broken control joints and repairing damaged concrete rapidly, even in cold conditions. Rapid Set 100 can accept heavy loads in 10 - 15 minutes.

Specifications / Compliances • Hardness - ASTM D2240 Shore D 70 • Tack Free - ASTM D2471 4-5 minutes  
• Tensile - ASTM D412 4500, filled • Tear Strength, pli - ASTM 624-C 560 • Elongation - ASTM D124 3.3% • Meets OTC, CARB & LADCO



#### KEY FEATURES & TYPICAL BENEFITS

- Minimal down time allowing the user to offer quick return to service.
- Works well even in cooler temperatures.
- Ultra low viscosity formula allows for easy application.
- Excellent for use under the *Rapid Cast™* Chip Floor System, *Metallic FX™* and other seamless floor application.
- VOC compliant for most areas in the United States and Canada.

#### Typical Properties & Technical Information

PROPERTY	VALUE
Solids/Active Content, Percentage by weight	60% +/- 1%
Pot Life	2 minutes
Dry Time - Tack Free	4 - 5 minutes
Dry Time - Traffic	10 -15 minutes
Tensile ASTM D412	4500 (filled)
Tear Strength, pli ASTM 624-C	560
Application Temperature	50° F - 80° F
VOC (Volatile Organic Compound) Content	Less than 420 grams/Liter mixed A&B
Appearance - Dry	Light Beige & some gloss

Information above is based on lab temperatures of 70° - 72°F at 50% RH. Using this product outside these conditions may affect the accuracy of the information above. Always test prior to use!

ALWAYS REFER TO SDS & READ FULL TECH DATA SHEET AND WARRANTY INFORMATION PRIOR TO USE.

#### RECOMMENDED APPLICATIONS

- Garages
- Auto Service Centers
- Laboratories
- Cafeterias
- Many other concrete floors where cracks, spalls and other damages are present.

**SURFKOAT™**  
Surface Koatings, Inc.  
*Manufacturers of Industrial and Decorative Concrete Materials*

Surface Koatings, Inc.  
134 Davis St. • Portland, TN 37148  
P: (615) 323-9461 • F: (615) 323-9816  
www.surfkoat.com | www.polyrezpro.com

FOR PROFESSIONAL USE ONLY

## **APPLICATION INSTRUCTIONS**

**SURFACE PREP:** Concrete must have a minimum 28 day cure prior to application. Prep joints and cracks with a v-blade on an angle grinder or by chiseling them out with a hammer drill. For spalls, use a twisted wire wheel or cup. Clean the surface and remove all unsound concrete, dust and debris. Fill deep cracks/holes with DRY play sand to avoid losing material in the hole. Any cutting or prepping should be performed with a dry diamond blade or grinding wheel. The area must be completely dry prior to application.

**TINTING:** Rapid Set may be tinted with 2-3 fluid oz. of Kolour Koat Acrylpack-S per gallon of Rapid Set for solid color applications. 0.25-0.5 fluid oz. (1 teaspoon to 1 tablespoon) of Exterior Kolour Dye per gallon of Rapid Set may be used as well to help disguise cracks on dye and seal floors. Always add color to Part B and drill mix for 2-3 minutes prior to blending A and B. Color may settle during long term storage and be difficult to redistribute. Note that cracks are not likely to be the same shade when using a semi-transparent dye/stain on the floor. Always test for color acceptance prior to full application.

**MIXING: MIX ONLY IN SMALL, WORKABLE QUANTITIES.** Mix Part A & Part B separately with a stir stick, low speed mixer or vigorously shake container prior to blending the smaller kit to ensure uniform distribution of all ingredients. Material may separate during long term storage. Proper mixing is pertinent to application success. In equal parts (1:1), mix Part A and Part B using a clean, dry working pot (mixing container). Stir contents approximately 15-45 seconds. No induction time is required prior to use, nor after mixing. It is typical to only mix 8 - 16 fluid oz. at one time in a disposable paper cup with a stir stick or tongue depressor. **DO NOT THIN!**

**COVERAGE RATE:** Coverage rates will vary

*For reference, 1 gallon will fill 243.3 cubic inches of volume. Theoretical Coverage: 1 gallon will fill 324 feet of crack at 1/4 inch wide by 1/4 inch deep.*

\*Coverage rates may vary depending upon damaged areas' width and depth, surface porosity, texture, and application method. Excessive build up should be avoided.

**POT LIFE:** Expected workable pot life after mixing Part A and Part B is approximately 2 minutes at a common temperature range of 70°F - 80°F at roughly 50% relative humidity.

**In temperatures below 40°F, use Rapid Set 200. Rapid Set 100 is for warm weather applications only and may set too slowly in lower temperatures.**

**APPLICATION INSTRUCTIONS:** Mix small amounts in a flexible container for easy dispensing. Pour directly into crack or over sand in crack base. If necessary, work the repair area quickly with a small putty knife. Screed to just above finished grade and allow to set. Allow to set completely, typically 10 - 15 minutes, and grind smooth using a large floor grinder and/or diamond cup wheel on an angle grinder. If necessary, apply again in low areas for a seamless finish. Note that deeper areas with more volume of Rapid Set should be allowed time to sit before coating to prevent solvent entrapment and bubbles in the coating applied over the Rapid Set.

**FOR PERSONAL PROTECTION USE GLOVES, GOGGLES, RESPIRATOR AND OTHER NECESSARY PPE. REFER TO SDS PRIOR TO USE!**

**Note for First Time Users - This is a very fast setting product, it is recommended to test this product before using it in an application to become familiar with how this product works.**

**PLEASE NOTE:** Applying material outside the suggested parameters may result in product failure. It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture etc.

---

## **Precautions and Limitations**

- This product will not freeze during storage, however, storage at room temperatures are recommended.
- All HVAC ventilation ducts should be somehow blocked prior to application so solvent fumes are not distributed.
- If using indoor, use proper ventilation while applying and for hours after application to ensure fumes are removed.
- It is not recommended to apply product over carpet, tile, or other types of floor adhesives.
- Do not expose Part A to moisture and do not apply the mixed product to a wet floor.
- Please be aware that this product when cured may be slippery when wet.
- All new concrete must be cured for at least 28 days prior to application.
- It is not recommended to thin product. Improper thinning may cause sealer to delaminate in a short time frame.
- This product may darken the surface of many new and existing concrete slabs. Test prior to use.
- This product should be diamond ground after setting. Failure to properly scarify cured material may result in failure of coating applied over top.
- This product may bond damaged slabs together. Do not apply where slab movement is required.
- Cure rates of this product may be drastically longer in temperatures below 50°F. Refer to Rapid Set 200 for cold weather applications.
- Solvent vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition source locations distant from material handling point.

---

**CLEAN-UP:** Use xylene. Dispose of containers in accordance with local, state and federal regulations.

**PRODUCT REMOVAL:** Dried, cured material may be removed by using a diamond grinding method, sandblasting method or similar mechanical action.

**SHELF LIFE:** Up to one year from manufacture date in its original, unopened container stored at room temperature.

**PACKAGING:** Available in 1 gallon and 2 gallon kits.

Always read all technical information, label and SDS prior to use. This information can be found online or by calling customer service at the number below.