

RAPID SET 100

fast setting concrete crack and spall filler

HIGH PERFORMANCE COATINGS



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.

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.

Recommended Applications

Effective on applications such as...

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

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 VOC restrictions.

Typical Properties & Technical Information

PROPERTY	VALUE
Solids/Active Content, Percentage by weight	60% +/- 1%
Dry Time - Tack Free ASTM D2471	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
Appearance - Wet	Light Beige
Appearance - Dry	Light Beige and Some Gloss

Testing in accordance with procedures outlined in EPA Method 24, "Volatile Organic Content VOC of Paints and Related Coatings". The solids content was determined in accordance with ASTM D 5095 and the VOC was calculated in accordance with ASTM D 3960.

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Application Instructions

SURFACE PREP: Concrete must have a minimum 28 day cure prior to application. Clean the joint area to be injected. The area must be dry prior to application. Clean the surface and remove all unsound concrete, dust and debris. Prepare surface using a twisted wire wheel for spalls. Cut perimeter of damage with dry diamond blade.

MIXING: If mixing less than a full kit, 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. Mix well before using. Material may separate during long term storage. **MIX ONLY IN SMALL, WORKABLE QUANTITIES.**

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.

COVERAGE RATE: *First Coat*: 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, application method and prior sealer application. 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.

APPLICATION INSTRUCTIONS: Mix small amounts in an easy dispensing container. Pour directly into crack or over sand in crack base. Work the repair area quickly. Screed to finished grade and allow to set. For better finished repair surface, pour grout mix slightly high above the finished grade. Allow to set and grind using a grinder fitted with a fine grit Zec wheel. Work in circular motion to grind/smooth to finished grade. Seal the surface using mixed product neat with no sand.

FOR PERSONAL PROTECTION USE GLOVES, GOGGLES, AND RESPIRATORS.

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. 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, allow temperature to rise to 50°F prior to application.
- 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 may bond damaged slabs together. Do not apply where slab movement is required.
- This product should not be used in hot climate conditions as the set time may drastically shorten.
- **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 SOURCES AT 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 2 quart, 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.