



SRG is a low viscosity structural polyurethane polyurea hybrid product designed to fill pinholes and other micro defects in concrete floors that will be ground/polished. When installed properly, **SRG** can increase the concrete surface durability and enhance reflective gloss.

DEFECT PREPARATION AND REPAIR

Concrete should be clean and dry prior to material installation. If moisture is present, material may exhibit bubbling/moisture reaction. Remove all loose concrete chips, spalls, islands, etc. back to structurally sound concrete. Repair area should be completely free of dust, debris, dirt, oils and moisture prior application of material. For best penetration, floor should be thoroughly prepared mechanically with abrasive brushes and vacuumed clean.

SURFACE DEFECTS/SPALLS

For best results in achieving a flush repair surface profile, we recommend pre-filling defects larger than a 1/4" diameter flush or slightly high with either **Rapid Refloor** or add modification material to the **SRG**. **SRG** can be modified with dried sand aggregate or **Rapid Set® TRU®/TRU® PC** at ratio of 1 part **SRG** liquid: 2-2.5 parts modifier. If using modified **SRG**, allow for adequate cure time prior to grinding/grouting (typically 2 hours).

ANCHOR BOLT HOLES

If anchor is still intact, cut off as much of the bolt as possible or pound down into floor. Any exposed bolt should be recessed at least 1/2" below floor surface.

RANDOM CRACKS

Cracks up to 1/4" (6 mm) in width should be cleaned using a Nyalox wheel, soft wire wheel, or brush and vacuumed prior to filling. Fill/overfill crack with **SRG** and allow material to cure slightly (approximately 15 minutes) prior to coating the entire floor area with **SRG**. For cracks wider than 1/4" (6 mm), or cracks where continual movement is suspected, an alternate recommended repair method is to rout out the crack using a diamond blade to a depth of 1/2" (12 mm) to 3/4" (18 mm) and filling the crack with a semi-rigid filler such as our **Spal-Pro RS 88** polyurea.

COVERAGE

Coverage will vary depending upon porosity of floor, profile after initial grinding, and number and severity of surface defects. As a general guideline, expected coverage is 435 sf - 875 sf per gallon.

USE WITH CONCRETE GRINDING/POLISHING OPERATIONS

Note: Work area should be well ventilated and workers should use NIOSH approved breathing apparatus and/or OSHA compliant dust collection equipment.

When sequencing product installation as part of a concrete grinding/polishing process, install prior to your last metal or transitional tooling step. Use the least aggressive tooling which successfully removes the product and avoids opening more air holes/voids in the floor surface. See Technical Bulletin T21 for additional information.

INSTALLATION

Color Packs

Each **SRG** Color Pack will color one gallon of Part "A" Polyol. Empty complete contents of pouch by squeezing or rolling pouch contents into one gallon of Part "A" polyol and thoroughly mix until uniform color is achieved. After pigmenting, mix Part "A" polyol with Part "B" ISO at a 1:1 ratio as outlined below. For a 10 gallon unit, use 5 **SRG** Color Packs in one Part A Polyol Pail. Important: **SRG** is designed for use with a Color Pack. If no Color Pack is used, the product will not cure translucent, neutral or amber in color!

Mixing

Material should be preconditioned to 65°F-75°F for best results and designed work time. **SRG** should be mixed at a 1A:1B ratio by volume.

Upon combining Parts A & B, mixture should promptly be mechanically mixed with a helix paint mixer or similar for 45 seconds using a slow-speed drill until thoroughly blended prior to applying material to floor surface.

If modifying **SRG** for use in repairs with dried sand aggregate or **Rapid Set® TRU®/TRU® PC** thoroughly blend added material. The recommended ratio for either modification is 2 to 2.5 parts added material to 1 Part **SRG** (by volume), depending on desired mix and finished appearance.

Application Conditions

Surface must be thoroughly dry prior to application of **SRG**.

Application Timing (Ground/Polished Concrete)

Install **SRG** prior to your last metal or transitional step. If initial cut is performed wet, the floor must be allowed to dry out adequately prior to placement of **SRG**.

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Application

Apply material generously on the floor and work into the surface using a metal smoother, rigid-edged trowel or screeding device. Monitor surface for air holes resulting from entrapped air and re-apply as needed. In some cases, more than one coat will be required for best results. If two coats are desired, first coat should be ground off prior to installing a second coat. It is very important to monitor the viscosity and spreadability of the product during the application process. When product begins to thicken and application is more labored, it will not penetrate surface pores as effectively. Accordingly, it is recommended to mix only manageable batches that can be dispensed quickly with available labor. We recommend starting with a 16 oz. mixture (8 oz. Part A: 8 oz. Part B) to establish workable batch sizes. Note: material and/or concrete surface temperature will affect working application time.

Product Removal (When Used as Grout)

For best results in removing cured **SRG** cap/film, use 80/120 metals or transitional diamonds. Use the least aggressive tooling possible to avoid exposing additional holes/imperfections. Removal of cured product should be performed as soon as cure allows. The earliest typical removal time is 40 minutes (20 minutes if using Accelerator Pack). Latest recommended removal time is 1-1/2 hours after placement. Longer delays will result in more difficulty in removing product and/or the potential need to use more aggressive tooling. These times may vary depending on temperature of product and concrete surface and type of equipment and tooling used.

Product Removal (When Used as Repair Material)

SRG, when used as a repair mortar, should be allowed to cure for 2 hours or more prior to removing overfill material. Overfill can be removed with a diamond cup wheel or similar. If pin holes are present at the surface, fine grouting with additional **SRG** neat may be desired.

TECHNICAL INFORMATION

Reaction Profile

Pot life 5 minutes
(100 grams at 74°F)
Working time (on floor) 5-8 minutes
Tack-Free Time 20-30 minutes
Grindable 40 minutes

Typical Physical Properties

Shore D Hardness 70-75
Compressive Strength (ASTM D-638), psi 4767
Tear Strength (ASTM D-624), psi 284
Tensile Strength (ASTM D-412), psi 4184
Elongation (ASTM D-412), % 2.8
Mix Ratio by Volume 1:1
Odor Minimal
Shrinkage Negligible