

1. Product Name

SRG Surface Refinement Grout

2. Manufacturer

Metzger/McGuire

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3. Product Description

Composition:

SRG is a two-component, 95% solids structural polyurethane/polyurea hybrid. When cured, **SRG** is a rigid structural polymer with a Shore D Hardness of 70-75.

Basic Use:

SRG was developed to fill/repair micro-level concrete floor surface imperfections such as air holes, sand aggregate pops, surface pitting, scratches and gouges, etc.

SRG is designed for use in commercial or retail polished concrete floors where final building temperatures are 32°F (0°C) to +120°F (49°C).

4. Limitations

- **SRG** is designed primarily for fine grouting and not for use in repairing surface defects larger than ¼" unless modified with sand aggregate.
- Depending upon surface conditions and/or environmental conditions, more than one coat of product may be required.
- **SRG** may exhibit slight color change or shifting if exposed to UV emitting lighting sources.
- **SRG** will exhibit a moisture reaction on damp or wet surfaces; repair area should be dry.

5. Colors

The **SRG** system is designed to be used only with the addition of one of 9 available Color Packs. There is no Neutral or Clear/Natural color available. If the **SRG** kit is mixed without a Color Pack, the cured material will have a milky white appearance. Color packs must be thoroughly blended into **SRG Part A (Polyol)** prior to mixing the **SRG Part A (Polyol)** with the **SRG Part B (ISO)** at a 1:1 ratio.

A Color Pack is included as part of the **SRG** 2 Gallon Kits and available colors include:

Black Black Fox Cardboard Dovetail Gray Less Brown
Mocha Brown Porpoise Ryno Gray Warm Stone

6. Packaging

SRG is available in 2 gallon and 10 gallon kits.

7. Applicable Specifications

There are no applicable government or ASTM standards for structural polyurea/polyurethane repair products.

8. Availability

SRG is available through authorized distributors or through our New Hampshire headquarters.

9. Advantages

- ▶ Available in 9 colors to best camouflage floor surface pitting and surface imperfections
- ▶ Rapid-set formula allows for quick access to floor areas and grinding as early as 1 hour after application (@70°)
- ▶ Low viscosity allows for penetration into very small surface pits and imperfections
- ▶ Yields a smoother, denser floor surface
- ▶ 95% solids, minimal odor formula



10. Technical Properties

Viscosity Profile

Part A.....	199 cps
Part B.....	178 cps
Mixed.....	190 cps

Reaction Profile

Pot life.....	5 minutes
<i>(100 grams at 74°F)</i>	
Working time (on floor).....	8-10 minutes
Tack-Free Time.....	20-30 minutes
Grindable.....	1 hour

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
VOC Content.....	47 g/l
Mix Ratio by Volume.....	1:1
Odor.....	Minimal
Shrinkage.....	Negligible

11. Project Conditions

SRG is designed for use in concrete floors at temperatures of 32°F (0°C) or higher; lower temperatures will extend initial cure time.

SRG is moisture sensitive. Concrete should be clean and dry prior to installation of material. If moisture is present, material will exhibit bubbling/moisture reaction.

For best defect penetration, floor should be thoroughly cleaned using scrubber with dry brushes and vacuumed completely.

12. Use with Grinding/Polishing Operations

Note: Work area should be well ventilated and workers should use NIOSH approved breathing apparatus when grinding repair materials and concrete.

Install **SRG** after initial course grind. For best results in cutting off the cured **SRG** cap, use 80-120 metal bond diamonds or similar. Use the least aggressive tooling possible to avoid exposing additional voids/holes.

13. Defect Preparation and Repair

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 to application of material. For best defect 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 ¼" diameter flush or slightly high with either **Rapid Refloor** Fast Set, Low Viscosity Structural Concrete Repair Product or with modified **SRG** (1 part liquid: 2 parts dried silica or all-purpose sand). Allow material to cure (approximately 15 minutes) prior to coating the entire floor area with **SRG**.

Random Cracks

Cracks up to 1/8" (3 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 1/8" (3 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/Edge-Pro 80** polyurea joint fillers.

14. Coverage

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

15. Installation

Color Packs

Each **SRG** Color Pack will color one gallon of Part "A" Polyol. Empty complete contents of pouch 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 Part A Polyol Pail.

Mixing

SRG should be mixed at a 1A:1B ratio by volume. Upon combining, mixture should be mechanically mixed with a paint paddle on a slow-speed drill for 45 seconds, until thoroughly blended prior to applying material to floor surface. Material should be preconditioned to 65°F-75°F for best results and designed work time.

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.

16. Safety

SRG is for professional use only. Use only in well-ventilated areas. Practice all normal jobsite safety precautions (clean work area, etc.) and use NIOSH approved breathing apparatus at all times. Thoroughly review SDS for additional information prior to use.

17. Warranty

Metzger/McGuire Co. solely and expressly warrants that SRG shall be free from defects in material and workmanship for 365 days from the date of purchase. Unless authorized in writing by an officer of Metzger/McGuire, no other representations or statements made by Metzger/McGuire or its representatives, in writing or orally, shall alter this warranty. Metzger/McGuire makes no warranties, implied or otherwise, as to the merchantability or fitness for ordinary or particular purposes of its products and excludes the same. If any Metzger/McGuire product fails to conform with this warranty, Metzger/McGuire will replace the product at no cost to the purchaser. Purchaser's sole remedy in any case shall be limited to the purchase price or replacement cost of product and specifically excludes labor and the cost of labor, lost wages and opportunity costs, and all other possible incidental, consequential or special damages resulting from any claim of breach of warranty, breach of contract, negligence or any legal theory. Any warranty claim must be made within one (1) year from the date of material purchase. Metzger/McGuire does not authorize anyone on its behalf to make any written or oral statements which in any way alter the installation procedures or written installation instructions published in its product literature or on its packaging labels. Any installation of Metzger/McGuire products which fails to conform with such installation information or instructions shall void this warranty. Purchaser shall be solely responsible for determining the suitability of Metzger/McGuire's products for the purchaser's intended purpose.