

# Product Data Sheet

## Consolideck® LS®

### PREPARATION

Protect people, vehicles, property, plants and all surfaces not designated to receive LS® from the product, splash and wind drift. Use polyethylene or other proven protective material.

*New Concrete:* Though LS® may be applied to freshly placed concrete after final finishing and installation of the control joints, Consolideck® LS/CS® may be a better choice. Contact PROSOCO for recommendations. When applying to new concrete, remove soft cut saw debris before application.

*Existing Concrete:* LS® is ideal for application to existing, cured concrete of any age. Surfaces must be clean and structurally sound. Remove all foreign materials including bond breakers, curing agents, surface grease and oil, and construction debris using the appropriate Consolideck® surface prep cleaner.

Do not apply to surfaces which are frozen, dirty or have standing water. Surfaces must be clean, dry and absorbent. Test surface absorbency with a light water spray; surfaces designated for treatment should wet uniformly. If the surface does not wet uniformly, use the appropriate PROSOCO surface preparation cleaner or mechanical process to remove remaining surface contaminants.

Follow the appropriate cleaner with thorough water rinsing. If a d-limonene based cleaner/stripper is used, clean treated surfaces with PROSOCO's Cleaner/Degreaser and rinse thoroughly.

Acid-stained concrete must be thoroughly neutralized and rinsed prior to application.

Application may begin as soon as prepared surfaces are dry and free of ponded water.

### Surface and Air Temperatures

Temperatures for application should be 40–100°F (4–38°C).

### Equipment

Apply with low pressure sprayer or microfiber pad. Fit sprayers with a 0.5 gpm (gallon per minute)

spray tip.

### Storage and Handling

Store in a cool, dry place. Always seal container after dispensing. Do not alter or mix with other chemicals. Published shelf life assumes upright storage of factory-sealed containers in a dry place. Maintain temperatures of 40–100°F (4–38°C). If product freezes, allow to thaw and mix well. Do not double stack pallets. Dispose of in accordance with

### APPLICATION

Read “Preparation” and the Safety Data Sheet before use.

ALWAYSTEST a small area of each surface to confirm suitability, coverage rate and desired results before beginning overall application. Test with the same equipment, recommended surface preparation and application procedures planned for general application. Let surface dry thoroughly before inspection.

Pre-testing will confirm suitability of surface preparation and application procedures proposed for general application, and will also determine the average coverage rates to be maintained over the entire project.

### Dilution & Mixing

Do not dilute or alter. Use as supplied.

### Typical Coverage Rates

Variations in concrete quality, porosity, job site conditions, temperature and relative humidity will affect coverage rates and drying times. Calculate the target coverage rate by testing a representative section of the prepared surface using the published application instructions.

### Estimated Coverage Rates

The following coverage rates are offered for estimating only. See below for instructions on calculating project-specific target coverage rates.

#### *Freshly Placed, Uncured, Steel Troweled Concrete*

• 800–1000 sq.ft. (74–93 sq.m.) per US gal

#### *Steel Troweled; Ground/Honed; and Polished Concrete*

• 500–800 sq.ft. (46–74 sq.m.) per US gal

### Calculating Project-Specific Target Coverage Rate

1. Prepare the test section in accordance with “Preparation” information above. Surfaces must be clean, dry and absorbent. Surfaces should wet uniformly.
2. Add 1-gallon of LS® to a clean, pump-up sprayer. local, state and federal regulations.

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Apply according to Application Instructions  
Consoldeck® LS steps #1–3 for the appropriate floor type.

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- Repeat as necessary to determine correct rate of application.
3. Measure the test area to establish the target coverage rate per gallon.



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### APPLICATION INSTRUCTIONS

NOTE: Allowing excess material to puddle on the floor will extend dry times and create white residues which must be removed immediately. Call 800-255-4255 for removal instructions.

#### *Freshly Placed, Uncured Steel-Troweled Concrete*

1. After final finishing, soft cut control joints. Clean concrete of any dirt, residue or debris.
2. Using a low pressure sprayer, apply a single coat sufficient to wet the surface without producing puddles. Use a clean microfiber pad to spread product evenly and ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary. If surfaces dry immediately, apply more product. Surface should remain wet for 5–10 minutes. Adjust rate of application to eliminate puddles.
3. Allow treated surfaces to dry.
4. Immediately apply the specified curing compound or initiate the specified curing procedure.
5. When curing is complete, use an automatic floor scrubber equipped with cleaning pads or brushes appropriate for removal of accumulated construction soiling and surface residues. Avoid pads or brushes which may damage the finished floor. This will further enhance the sheen produced by LS®.

#### *Cured, Steel Troweled Concrete*

1. Surface must be clean, dry and absorbent, and must wet uniformly. Test surface absorbency with a light water spray. *To slow dry times in hot, dry weather conditions*, lightly pre-wet the concrete with fresh water and allow any standing water to evaporate.

### BEST PRACTICES

Surfaces to be treated must be clean, dry and absorbent. Test surface absorbency with a light water spray. If surfaces designated for treatment do not wet uniformly, use the appropriate PROSOCO surface prep cleaner or mechanical process to remove remaining surface contaminants.

If the desired surface finish requires mechanical removal of the top layer of cement paste, best results are achieved by sanding or grinding the cured concrete surface to achieve a 50–200 grit finish before applying LS®. The increased surface density which LS® provides will make further sanding, grinding or diamond polishing proceed faster. Spray applicators equipped with 0.5 gpm (gallon

per minute) fan spray tip have proven effective for application of this product.

2. Using a low pressure sprayer, apply a single coat sufficient to wet the surface without producing puddles. Use a clean microfiber pad to spread product evenly and ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary. If surfaces dry immediately, apply more product. Surface should remain wet for 5–10 minutes. Adjust rate of application to eliminate puddles.
3. Allow treated surfaces to dry.
4. Remove dried powder residue using stiff broom, power sweeper or floor scrubbing machine.
5. For immediate, enhanced shine, buff or burnish the dry concrete surface in both directions using an orbital floor machine or burnisher equipped with an appropriate polishing pad. This is a dry buffing operation.

#### *Cured, Ground/Honed Concrete*

1. Sand, level or grind the surface with a floor sander, orbital floor machine or diamond grinder, as needed, to achieve desired exposure. Remove all dust and debris with a floor scrubbing machine and fresh water. Allow wet surfaces to dry. Surfaces must be clean and dry.
2. Using a low pressure sprayer, apply a single coat sufficient to wet the surface without producing puddles. Use a clean microfiber pad to spread product evenly and ensure uniform wetting. Avoid spreading once drying begins. Scrubbing is not necessary. If surfaces dry immediately, apply more product. Surface should remain wet for 5–10 minutes. Adjust rate of application to eliminate puddles.
4. Allow treated surfaces to dry.

Consolideck® LS® is suitable for use with wet or dry grinding and polishing procedures. Wastewater generated by wet grinding or polishing procedures should be collected and disposed of properly.

Use Consolideck® DailyKlean as part of a comprehensive maintenance program that includes deep cleaning with Consolideck® LSKlean.

For concrete floors regularly maintained with auto scrubbers, see Consolideck® DailyKlean ULTRA 15 or DailyKlean ULTRA 30 for easy dilution. The same ease of dilution is available for deep cleaning with Consolideck® LSKlean ULTRA 15 and LSKlean ULTRA 30.

Never go it alone. If you have problems or questions, contact your local PROSOCO distributor or a

representative. Or call PROSOCO technical Customer Care, toll-free, at 800-255-4255.



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5. Remove any dried powder residue using stiff broom, power sweeper or floor scrubbing machine.
6. If additional surface sheen is desired, buff or burnish the surface in both directions with an orbital floor machine or burnisher equipped with an appropriate polishing pad. This is a dry buffing operation.

### *Cured and Polished Concrete*

Follow steps 1–4 listed above for Ground/Honed Concrete. Using progressively finer abrasives, continue diamond polishing in consecutive steps to achieve the desired finish. Remove all polishing dust and debris.

### Protective Treatment

To achieve additional shine and protection, apply Consolideck® LSGuard® or PolishGuard.

For improved resistance to water or oily stains with no change to surface appearance, apply Concrete Protector SB.

Call Customer Care at 800-255-4255 for assistance with proper product recommendation. Always obtain the Product Data for full limitations, application and safety instructions before applying any PROSOCO product.

### Cleanup

Before product dries, clean tools and equipment with fresh water. Immediately wash off over spray from glass, aluminum, polished or other surfaces with fresh water.

### Final Results

The floor is ready to use when dry. Surfaces exhibit reduced water absorption upon drying and maximum water resistance will develop over 7 days. Surface hardness and sheen often increase over time and with proper maintenance.

### Maintenance

Remove surface dust and debris daily using a microfiber pad or dry dust mop. Dry buff with a high-speed burnisher to refresh gloss. Regular maintenance cleaning will improve surface shine. Maintain the floor with Consolideck® DailyKlean or LSKlean.

Do not use acidic cleaners. Though LS® will improve the resistance of concrete surfaces to staining, acid concentrates and acidic foods may etch the floor and leave a residual stain. Clean up spills quickly to minimize any potential for damage. Though protective treatments simplify maintenance of concrete floors, all spills must be cleaned up in a timely manner.

## WARRANTY

The information and recommendations made are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation encountered in masonry surfaces, job conditions and methods used. The purchasers shall make their own tests to determine the suitability of such products for a particular purpose.

PROSOCO, Inc. warrants this product to be free from defects. **Where permitted by law, PROSOCO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of merchantability or fitness for particular purpose.** The purchaser shall be responsible to make his own tests to determine the suitability of this product for his particular purpose. PROSOCO's liability shall be limited in all events to supplying sufficient product to re-treat the specific areas to which defective product has been applied. Acceptance and use of this product absolves PROSOCO from any other liability, from whatever source, including liability for incidental, consequential or resultant damages whether due to breach of warranty, negligence or strict liability. This warranty may not be modified or extended by representatives of PROSOCO, its distributors or dealers.

## CUSTOMER CARE

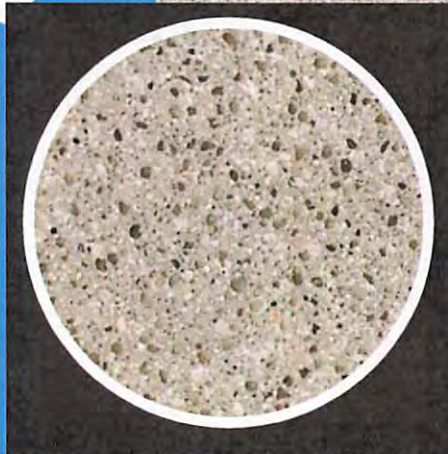
Factory personnel are available for product, environment and job-safety assistance with no obligation. Call 800-255-4255 and ask for Customer Care – technical support.

Factory-trained representatives are established in principal cities throughout the continental United States. Call Customer Care at 800-255-4255, or visit our web site at [prosoco.com](http://prosoco.com), for the name of the PROSOCO representative in your area.





## High-Performance, Polishable, Self-Leveling Topping for a Fine-Aggregate Finish



### DESCRIPTION

*Ultratop SP* is a polishable, self-leveling, cementitious topping that provides a fine-aggregate exposed finish. *Ultratop SP* is engineered for fast-track resurfacing of horizontal wear surfaces.

### FEATURES AND BENEFITS

- Easily installed from 3/8" to 2" (10 mm to 5 cm)
- Quickly hardens within 2 to 3 hours; polishable in as soon as 24 hours
- For diamond-polishing guidelines, see the technical bulletin "Polishing *Ultratop*" in the Concrete Restoration Systems section of MAPEI's Website.
- Available in gray color
- Although already extended with coarser aggregates, *Ultratop SP* can be extended with decorative aggregate up to 1/4" (6 mm) in size, resulting in unlimited finished appearances.

### WHERE TO USE

- For interior use only
- Suitable for light vehicular traffic in commercial, industrial and residential applications
- For professional use only

### SUITABLE SUBSTRATES

- Concrete must be structurally sound, dry, stable and cured for at least 28 days.

Consult MAPEI's CRS Technical Services Department for installation recommendations regarding substrates and conditions not listed.

### SURFACE PREPARATION

- Concrete surfaces must be clean and free of loose particles, efflorescence, paints, tars, grease, asphaltic materials, bond breakers, curing compounds, wax and any foreign substances.
- Mechanically profile and prepare concrete surfaces by engineer-approved methods in accordance with the most current ICRI 310.2R Guidelines, having a minimum ICRI concrete surface profile (CSP) of at least #3.
- Always use caulking or foam tape to round off any sharp corners that protrude into the room receiving the topping, as well as column bases, supports and equipment pedestals, etc., including the use of foam tape around the perimeter of the pour.
- Always prime the prepared surface with MAPEI's *Primer SN*™ and squeegee it into place, scrub it into the substrate, and then back-roll to ensure a uniform application at a thickness of 15 to 20 wet mils. While *Primer SN* is still wet, follow immediately with a full sand broadcast (to rejection) with #16 to #30 mesh sand or #10 to #20 mesh sand. After *Primer SN* has cured for at least 16 hours, vacuum up the excess sand. Alternative primers such as MAPEI's fast-setting *Primer SN Fast* can be used in accordance with Technical Data Sheets. Consult MAPEI's CRS Technical Services Department for recommendations.
- All existing construction/control/expansion joints, or saw cuts, and all moving cracks must be honored up through the topping by installing a suitable joint filler in control joints, a suitable sealant in isolation joints, or a suitable epoxy injection material in cracks. *Ultratop SP* must not be installed over any joints or any cracks if they are not properly honored. If not, the control joint or any cracks will cause *Ultratop SP* to show cracks or pattern reflective after *Ultratop SP* has been installed. MAPEI cannot be responsible for problems that arise from existing cracks, new cracks or joints that may develop after *Ultratop SP* has been installed.



## MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

### General mixing:

1. Into a clean mixing container, pour the required amount of cool, clean potable water.
2. Add *Ultratop SP* powder while slowly stirring. Mix water and *Ultratop SP* powder at a ratio of 3.15 to 3.50 U.S. qts. (2.98 to 3.31 L) of water per 50-lb. (22.7-kg) bag of *Ultratop SP*.
3. The mixing ratio must remain consistent. Settling of the sand aggregate during placement indicates overwatering.

### Barrel mixing (when extended):

1. Using the mixing ratio above, mix with a low-speed, heavy-duty mixing drill (at 300 to 450 rpm) with a helix-style mixing paddle.
2. Mix to a homogenous, lump-free consistency for about 2 to 3 minutes.
3. Do not overmix. Overmixing or moving the mixer up and down during the mixing process could trap air, which could shorten the pot life or cause pinholing during the product application and curing.

### Pump mixing:

1. *Ultratop SP* can be mixed and poured mechanically with a continuous mixer and pump that can handle cementitious toppings with medium and large aggregate sizes.
2. The machines must be in good working condition per the manufacturer's instructions.
3. Apply the mixture to a large test area before the general application to ensure a successful installation.

### Use of integral colors:

- Integral colors may be used at the discretion of the owner/installer. However, extreme caution must be exercised to ensure that the type and amount of color do not alter and/or decrease the performance of *Ultratop SP*. A test pour should be conducted to ensure that performance characteristics – such as set time, flow, water ratio, ease of finishing and curing – are not significantly altered.

## PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Before installation, close all doors and windows and turn off HVAC systems to prevent drafts. Protect areas from direct sunlight.
2. Make sure that the substrate and ambient room temperatures are between 50°F and 90°F (10°C and 32°C) before application. Temperatures must be maintained within this range for at least 72 hours after the installation of *Ultratop SP*. To ensure a successful installation, follow ACI cold-weather application guidelines in cool conditions, and follow ACI hot-weather application guidelines for temperatures above 85°F (29°C).
3. For best results, work as a team to provide a continuous flow of wet material to maximize the working/finishing time and achieve a uniform finish throughout.
4. Set the width of the pour at a distance that is ideal for maintaining a wet edge throughout placement. Quickly pour or pump *Ultratop SP* onto the properly prepared and primed surface in a ribbon pattern. If a wet edge cannot be maintained, reduce the width of the pour.
5. *Ultratop SP* has a flow time of up to 10 minutes at 73°F (23°C) and 50% relative humidity, is semi-leveling and can be applied from 3/8" to 2" (10 mm to 5 cm) neat. Pour a minimum thickness of 1/2" (12 mm) for floors that are subjected to high loads. Note that temperature and humidity will affect working time, flowability and setting time. Apply enough material to adequately cover all high spots.
6. Immediately after placing *Ultratop SP*, spread the material with a gauge rake. After achieving the desired depth, use a smoother to obtain an even surface. To avoid air entrapment, do not overwork the material.
7. For unlimited finishes, *Ultratop SP* can be extended with decorative aggregate up to 1/2" (12 mm) in size. Extend *Ultratop SP* by weight at the ratio specified on the future project requests. Use washed and dry aggregate in order to avoid color differences on the mixed *Ultratop SP* coming from the aggregates' dust. In order to avoid dehydration on the mixed *Ultratop SP*, do not go below the minimum mixing water ratio recommended in this document. When extending with decorative aggregate, mixing tests must be performed with *Ultratop SP*, desired aggregates and integral liquid colors during the mix design process before the samples are submitted to the customer. Using those precautions, the water ratio, coverage, thickness and final texture can be known based on the specific aggregates used. MAPEI cannot be responsible for problems that arise from segregation, cracks or uneven texture and/or color consistency that may develop after the *Ultratop SP* has been installed and polished.
8. For polishing, let *Ultratop SP* cure for at least 24 hours after placement. The curing time varies depending on temperature and humidity. A densifier can be applied during the polishing process. Pouring and polishing any topping requires a high degree of experience and craftsmanship, and this *Ultratop SP* is designed for professional use only. Contact MAPEI's CRS Technical Services Department for recommendations of preferred installers.
9. Typically, *Ultratop SP* can be stained, sealed or coated after polishing. Follow the recommendations of the stain, sealer or coating manufacturer. Test all surface treatments on a small sample area, before application, to ensure the desired results. Verify that the moisture content meets the specifications of the stain, sealer or coating manufacturer.
10. Always perform a meaningfully sized mockup exactly as the finished floor will be. The on-site mockup should demonstrate surface preparation, finish, color, sealer, joint design/treatment and application workmanship that must be installed for the client's review and approval.



**Product Performance Properties**

Laboratory Tests	Results
Compressive strength – ASTM C109 (CAN/CSA-A5) at 73°F (23°C) and 50% relative humidity	
1 day	>2,500 psi (17.2 MPa)
7 days	>4,400 psi (30.3 MPa)
28 days	>6,000 psi (41.4 MPa)
Flexural strength – ASTM C348 (CAN/CSA-A23.2-8C) at 73°F (23°C) and 50% relative humidity	
28 days	>1,000 psi (6.90 MPa)
VOCs (Rule #1168 of California's SCAQMD)	0g per L

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

**Shelf Life and Product Characteristics** before mixing

Shelf life	9 months when stored in original, unopened packaging in a dry, covered and well-ventilated place at 73°F (23°C)
Physical state	Powder
Color	Gray

**Application Properties**

Mixing ratio	3.15 to 3.50 U.S. qts. (2.98 to 3.31 L) of water per 50-lb. (22.7-kg) bag of powder
Density	About 131.1 lbs. per cu. ft. (2.10 kg per L)
Application temperature range	50°F to 90°F (10°C to 32°C)
Flowing time at 73°F (23°C)	10 minutes
Final set at 73°F (23°C)	< 100 minutes
Time required before installation of stains or coatings	24 hours

**CSI Division Classifications**

Concrete Topping	03 53 00
Cast-in-Place Concrete	03 30 00

**Packaging**

Size
Bag: 50 lbs. (22.7 kg)

**Approximate Coverage\*** per 50 lbs. (22.7 kg)

Yield	0.44 cu. ft. (0.01 m <sup>3</sup> )
Coverage at 3/8" (10 mm) thickness	14.1 sq. ft. (1.31 m <sup>2</sup> )
Coverage at 1/2" (12 mm) thickness	10.6 sq. ft. (0.98 m <sup>2</sup> )

\* Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions and setting practices.

**CURING AND PROTECTION**

- *Ultratop SP* is self-curing; do not use a damp-curing method or curing-and-sealing compounds.
- During curing, protect *Ultratop SP* for at least 24 hours from temperatures above 90°F (32°C) and drafty conditions.
- Avoid walking on the installed surface for at least 3 to 4 hours after installation, depending upon temperature and humidity conditions.
- Protect from traffic, dirt and dust from other trades until the final floor polishing practices have been completed.
- Do not expose *Ultratop SP* to rolling loads, such as forklifts or scissor lifts, for at least 48 hours after installation.
- Always apply a protective coating or sealer over *Ultratop SP*. Deep applications and cool temperatures may require a longer waiting period before the application of subsequent treatments. Test all surface treatments on a representative sample area, before application, to ensure adequate installation techniques as well as the desired results.



S  
P**CLEANUP**

- Wash hands and tools with water promptly before the material hardens.
- Cured material must be mechanically removed.

**LIMITATIONS**

- Do not install in environments requiring chemically resistant industrial toppings.
- Do not install over substrates containing asbestos.
- Do not install for exterior use.
- Use only between the temperatures of 50°F and 90°F (10°C and 32°C). In cool conditions, follow ACI cold-weather application guidelines, and for temperatures above 85°F (29°C), follow ACI hot-weather application guidelines to ensure a successful installation.
- High temperatures and low humidity conditions will decrease working time.
- Honor all expansion, isolation and control joints throughout the entire system. Reflective cracks may appear due to vibration, substrate flexure or existing joints and cracks.
- Do not bridge unrepaired cracks or expansion, isolation or control joints. It is also common for cementitious overlays to develop cracks and/or micro-cracks. Cementitious overlay products such as *Ultratop SP* may not be capable of restraining movement from the substrate; reflective cracks may appear due to vibration or substrate flexure.
- The color of *Ultratop SP* may be subject to subtle smoothing marks or color differences caused by product dripping from placing and smoothing equipment. This is a normal aspect of colored materials and can be addressed with proper placement techniques.

- Indentations, gouging and similar damage can be caused by steel-wheeled (high point-loading) or by dragging sharp or heavy metal objects over the floor.
- For concrete substrates with a moisture vapor emission rate (MVER) exceeding 5 lbs. per 1,000 sq. ft. (2.27 kg per 92.9 m<sup>2</sup>) per 24 hours, using a calcium chloride test (reference ASTM F1869), install an appropriate MAPEI moisture-reduction barrier system: *Planiseal MB* followed by the application of *Primer SN* or *Primer SN Fast* with sand broadcast. Contact MAPEI's CRS Technical Services Department for recommendations.
- A sizeable jobsite mockup is required before full application to ensure desired results.
- Alterations to the product—such as adding integral coloring, decorative aggregates, stains and dyes—are not warranted.
- *Ultratop SP* is not warranted without the use of *Primer SN* or *Primer SN Fast* along with a properly graded sand broadcast.

Refer to the SDS for specific data related to health and safety as well as product handling.

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact [sustainability\\_USA@mapei.com](mailto:sustainability_USA@mapei.com) (USA) or [sustainability-durabilite@mapei.com](mailto:sustainability-durabilite@mapei.com) (Canada).

**LEGAL NOTICE**

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at

[www.mapei.com](http://www.mapei.com). **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use,

and the user alone assumes all risks and liability. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

We proudly support the following industry organizations:



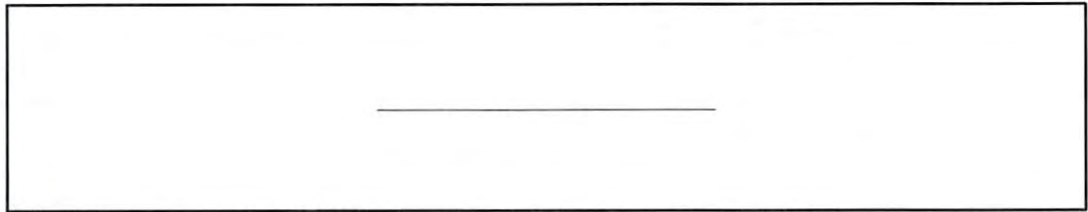
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**Services in Mexico**  
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### 1. Product Name

**SRG Surface Refinement Grout**

### 2. Manufacturer

**Metzger/McGuire**

PO Box 2217 Concord, NH 03302 (USA) Phone: 603-224-6122

Fax: 603-224-6020 • Web: [www.metzgermcguire.com](http://www.metzgermcguire.com)

### 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** can also be mixed with sand aggregate or **Rapid Set® TRU®** and **TRU® PC** to create a repair mortar suitable for joints, cracks, and larger surface defects.

**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).

#### Related Products:

**SRG** is designed for use with a Color Pack. An Accelerator Pack which reduces potlife and grind time is also available.

### 4. Limitations

- **SRG** is designed primarily for fine grouting and not for use in repairing surface defects larger than ½" unless modified with sand aggregate or **Rapid Set® TRU®** and **TRU® PC**.
- 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 12 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 Kit and 5 Color Packs as part of the **SRG** 10 Gallon Kit. Available colors include: Black, Black Fox, Brevity Brown, Cardboard, Dovetail Gray, Intellectual Gray, Less Brown, Mocha Brown, Porpoise, Ryno Gray, Tan Bark and 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.

## Rapid-Set Surface Restoration Polymer

### TECHNICAL DATA

### SRG-1



Low Emitting Adhesive/Sealant Complies with:

**LEED v4.1**

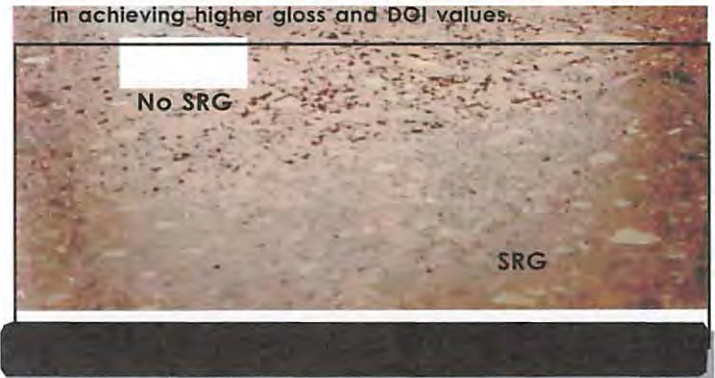
- BD&C, ID&C
- The WELL Building Standard
- ANSI/GBI 01, Green Building Assessment Protocol
- Green Guide for Healthcare V2.2

### 8. Availability

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

### 9. Advantages

- ▶ Available in 12 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 40 minutes after application (@70°) or 20 minutes with Accelerator Pack.
- ▶ Low viscosity allows for penetration into very small surface pits and imperfections
- ▶ Yields a smoother, denser floor surface which can aid in achieving higher gloss and DOI values.



#### Viscosity Profile

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

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

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### 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 a scrubber with dry brushes and vacuumed completely.

### 12. Use with Concrete Grinding/Polishing Operations

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.

### 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** or add modification material to the **SRG**. **SRG** can be modified with dried sand aggregate or **Rapid Set® TRU® / TRU® PC** at a 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).

#### 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 joint 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 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.

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#### Mixing (continued)

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**.

#### 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.

### 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 and/or OSHA compliant dust collection equipment 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.

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# Concrete Protector SB

Consolideck® Concrete Protector SB is a penetrating, reactive treatment that provides water, oil and stain repellency for every kind of finished concrete floor. Treated surfaces retain their natural texture and breathability. Concrete Protector SB improves stain resistance and simplifies maintenance cleaning of interior and exterior, horizontal and vertical concrete surfaces. Solvent-based and low-odor, this VOC compliant protective treatment is easily applied with pump-up sprayers.

## TYPICAL TECHNICAL DATA

FORM	Clear, colorless liquid
SPECIFIC GRAVITY	0.96
pH	not applicable
WT/GAL	7.99 lbs
ACTIVE CONTENT	13%
TOTAL SOLIDS	13% ASTMD 2369
VOC CONTENT	<100 g/L
FLASH POINT	>170° F (>77° C) ASTM D 3278
FREEZE POINT	<-22° F (<-30° C)
SHELF LIFE	1 year in tightly sealed, unopened container

## SAFETY INFORMATION

Always read full label and SDS for precautionary instructions before use. Use appropriate safety equipment and job site controls during application and handling.

24-Hour Emergency Information:  
INFOTRAC at 800-535-5053

## ADVANTAGES

- Resists oil and food stains, and repels water and water-related stains.
- Works on floors previously treated with Consolideck® LS®, LS/CS® or Blended Densifier.

- May be applied to surfaces previously treated with Consolideck® LSGuard® or PolishGuard.
- Appropriate for application to any cured concrete, from steel troweled to highly polished.
- Low-odor suitable for interior application to occupied buildings.
- Fast drying – reduces down time.
- Treated surfaces “breathe” – does not trap moisture.
- Can be burnished.
- Coverage rate higher than typical water repellents or other stain-resistant impregnators.
- Re-coatable; penetrates and bonds to concrete previously treated with Concrete Protector SB – no stripping required.

## Limitations

- May slightly darken concrete surfaces.
- Not for use on surfaces exposed to standing or pooling water.
- Over application can result in excessive darkening, extended drying times and surface haze.
- Will not compensate for structural defects or bridge cracks, gaps and voids.
- Not suitable for surfaces subjected to below grade water exposure.
- Will not provide UV protection to concrete floors colored with Consolideck® GemTone Stain or ColorHard. Consolideck® LSGuard® or PolishGuard are more appropriate.
- Always pretest to ensure desired results before application.

## REGULATORY COMPLIANCE

### VOC Compliance

Consolideck® Concrete Protector SB is compliant with the US Environmental Protection Agency's AIM VOC regulations.

Visit [www.prosoco.com/voccompliance](http://www.prosoco.com/voccompliance) to confirm compliance with individual district or state regulations.



# Product Data Sheet

## Consolideck® Concrete Protector SB

### PREPARATION

Protect people, vehicles, property, plants and all surfaces not designated for treatment from the product, splash and wind drift. Use polyethylene or other proven protective material.

Do not apply to surfaces which are frozen, dirty or have standing water.

Concrete Protector SB may be applied to existing, cured concrete of any age. New concrete should be cured for at least 28 days prior to application. Surfaces must be clean and structurally sound. Remove all foreign materials including bond breakers, curing agents, surface grease and oil, and construction debris using the appropriate PROSOCO surface prep cleaner. Follow the appropriate cleaner with thorough water rinsing.

If a d-limonene based cleaner/stripper is used, clean treated surfaces with PROSOCO's Cleaner/Degreaser and rinse thoroughly.

Application may begin as soon as prepared surfaces are dry.

### Surface & Air Temperatures

Should be 40–100° F (4–38° C) during application. Avoid application on hot, windy days.

### Equipment

Preferred method of application is with a low-pressure (<50 psi), pump-up sprayer and a microfiber or synthetic lint-free mop. Fit sprayer with a 0.5 gpm spray tip. Sprayers should be fitted with solvent-resistant hoses and gaskets to avoid discoloration. Do not atomize during application.

### Storage and Handling

Store in a cool, dry place. Keep tightly closed when not dispensing. Do not alter or mix with other chemicals. Published shelf life assumes upright storage of factory-sealed containers in a dry place. Maintain temperatures of 40–100° F (4–38° C). Do not double stack pallets. Dispose of in accordance with local, state and federal regulations.

### APPLICATION

Read "Preparation" and the Safety Data Sheet before use. ALWAYS TEST a small area of each surface to confirm suitability, coverage rate and desired results before beginning overall application. Test with the same equipment, recommended surface preparation and application procedures planned for general application. Let surface dry thoroughly before inspection.

Include in the test area any previous repairs and patches, including aesthetic cementitious finishes. Different surface compositions may result in absorption and/or appearance differences.

Pre-testing will confirm suitability of surface preparation and application procedures proposed for general application, and will also determine the average coverage rates to be maintained over the entire project.

### Dilution & Mixing

Apply as packaged. Do not dilute or alter material. Stir or mix well before use.

Once opened, Concrete Protector SB must be used immediately.

### Typical Coverage Rates

Variations in concrete quality, porosity, job site conditions, temperature and relative humidity will affect coverage rates and drying times. Calculate the target coverage rate by testing a representative section of the prepared surface using the published application instructions.

Coverage is in square feet/meters per gallon

- *Steel Troweled Concrete:* 1500–3000 sq.ft. (139–279 sq.m.)
- *Mechanically Honed & Polished Concrete:* 2500–4000 sq.ft. (232–372 sq.m.)
- *LSGuard or PolishGuard Treated Concrete Floors:* 4000–5000 sq.ft. (372–465 sq.m.)

Applications to highly polished floors yield the highest coverage rates. Two thin applications achieve better results than one heavy coat.

### Application Instructions

#### Horizontal Surfaces:

Concrete Protector SB may be applied to steel troweled, honed, polished or highly polished concrete surfaces. For best results, treat floors with PROSOCO's LS®, LS/CS® or Blended Densifier before application.

1. Lightly wet a clean microfiber pad with Concrete Protector SB, leaving the pad damp.
2. Using a clean, pump-up sprayer, and working from one control joint to another, apply a light, fine spray to a small section of the floor.
3. Using the damp microfiber pad and firm downward pressure, immediately spread Concrete Protector SB to produce a thin, even application. Spread the product as far as possible while maintaining a wet edge.



## Product Data Sheet

# Consolideck® Concrete Protector SB

- Allow to dry tack free, typically 60–90 minutes. Best results are achieved when Concrete Protector SB is allowed to dry and cure for at least 4 hours prior to burnishing.
- Once dry, Concrete Protector SB may be burnished using a high-speed burnisher fitted with a Consolideck® Heat Burnishing Pad or 1500–3000 grit diamond polishing pad suitable for use on high-gloss finishes. In addition to smoothing and polishing the treated surface, high-speed burnishing can help to remove any surface haze from possible over application.
- Repeat steps 1-5 above as necessary to provide additional stain protection. Apply up to two coats for maximum protection. Subsequent application or applications over surfaces treated with LSGuard® or PolishGuard will require less material and may take longer to dry.

### Vertical Surfaces

- Apply uniformly with low-pressure, pump-up sprayer using enough product to saturate the surface.
- Brush out heavy runs or drips thoroughly for uniform coverage.
- An additional coat can be applied after material has dried for at least 60–90 minutes. The second coat will require less material.

### Drying Time

Under typical conditions, treated surfaces are ready for foot traffic when dry to the touch. Concrete Protector SB gains its stain resistance and water repellency after 24 hours. Stain resistance properties continue to improve for 7 days after application.

### Cleanup

Before product dries, clean tools and equipment with mineral spirits or equivalent cleaning solvent. Immediately wipe off over-spray from glass, aluminum, or other surfaces.

### Maintenance

Sweep treated surfaces daily with a microfiber pad or dry dust mop.

Remove spills or stains from surfaces treated with Concrete Protector SB as soon as possible to minimize any potential for damage. Though Concrete Protector SB will improve the resistance of concrete surfaces to staining, acid concentrates and acidic foods may etch the floor and leave a residual stain.

Use PROSOCO's DailyKlean or LSKlean for maintenance cleaning. LSKlean contains lithium-silicate for improving surface density and preserving the surface sheen of Consolideck® floors.

Do not use other cleaners, including off-the-shelf and common household cleaners, which may contain acidic or alkaline ingredients that can dull the finish of Consolideck® floors.

To restore maximum water and stain protection to high traffic areas on vertical floors, repeat Application Instructions steps 1–5 in affected areas.

If additional protective treatments or surface coatings are desired, contact PROSOCO Customer Care for recommendations by calling 1-800-255-4255.

### BEST PRACTICES

Concrete Protector SB may be applied to steel troweled, honed, polished or highly polished concrete surfaces. Concrete Protector SB can also be applied to surfaces previously treated with PROSOCO's LSGuard® or PolishGuard.

For best results, treat floors with PROSOCO's LS®, LS/CS® or Blended Densifier before application.

Variations in concrete quality, porosity, job site conditions, temperature and relative humidity will affect coverage rates and drying times. Over application can result in excessive darkening, extended drying times and surface haze.

ALWAYS TEST a representative area of each surface to confirm suitability, coverage rates and desired results before beginning overall application. Pre-testing will confirm suitability of surface preparation and application procedures proposed for general application, and will also determine the coverage rates to be

maintained over the entire project.

Preferred method of application is low-pressure pump-up spray equipment (<50 psi). Do not atomize during application. Use a fan-type spray tip and adjust pressure to prevent atomization.

Best results are obtained when Concrete Protector SB is allowed to dry and cure for at least 4 hours prior to burnishing.

Use PROSOCO's DailyKlean as part of a comprehensive floor maintenance program that includes deep cleaning with PROSOCO's LSKlean. For concrete floors regularly maintained with auto scrubbers, see DailyKlean ULTRA 15 or DailyKlean ULTRA 30 for easy dilution. The same ease of dilution is available for deep cleaning with LSKlean ULTRA 15 and LSKlean ULTRA 30.

Never go it alone. If you have problems or questions, contact your local PROSOCO distributor or field representative. Or call PROSOCO technical Customer Care at 800-255-4255.



## Product Data Sheet Consolideck® Concrete Protector SB

### WARRANTY

The information and recommendations made are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation encountered in masonry surfaces, job conditions and methods used. The purchasers shall make their own tests to determine the suitability of such products for a particular purpose.

PROSOCO, Inc. warrants this product to be free from defects. **Where permitted by law, PROSOCO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of merchantability or fitness for particular purpose.** The purchaser shall be responsible to make his own tests to determine the suitability of this product for his particular purpose. PROSOCO's liability shall be limited in all events to supplying sufficient product to re-treat the specific areas to which defective product has been applied. Acceptance and use of this product absolves PROSOCO from any other liability, from whatever source, including liability for incidental, consequential or resultant damages whether due to breach of warranty, negligence or strict liability. This warranty may not be modified or extended by representatives of PROSOCO, its distributors or dealers.

### CUSTOMER CARE

Factory personnel are available for product, environment and job-safety assistance with no obligation. Call 800-255-4255 and ask for Customer Care – technical support.

Factory-trained representatives are established in principal cities throughout the continental United States. Call Customer Care at 800-255-4255, or visit our website at [prosoco.com](http://prosoco.com), for the name of the PROSOCO representative in your area.



# SPAL-PRO RS 88

Semi-Rigid Polyurea Joint Filler

## 1. Product Name

**SPAL-PRO RS 88**

## 2. Manufacturer

**METZGER/MCGUIRE**

PO Box 2217 Concord, NH 03302 (USA) Phone: 603-224-6122  
Fax: 603-224-6020 Web: [www.metzgermcguire.com](http://www.metzgermcguire.com)

## 3. Product Description

### Composition

**Spal-Pro RS 88** is a rapid-setting polyurea polymer liquid of 100% solids content. When cured, **Spal-Pro RS 88** is a gray, rubberlike solid with a hardness of Shore A86-90.

### Basic Use

**Spal-Pro RS 88** was developed to fill and protect joints in trafficked industrial and retail concrete floors. Its primary function is to support such traffic and protect joint edges. **Spal-Pro RS 88** is intended for use where final temperatures are from 32°F (0°C) to +120°F (49°C).

### Other Uses

**Spal-Pro RS 88** is also ideal for filling random cracks in industrial floors.

## 4. Limitations

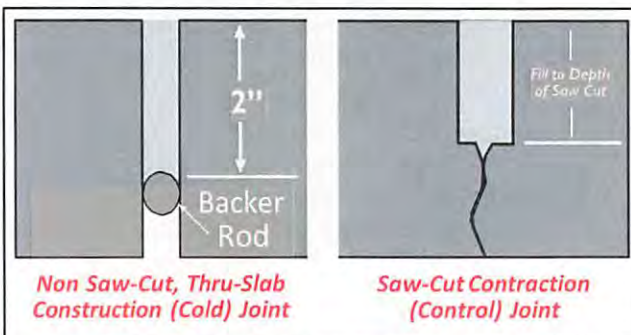
**Spal-Pro RS 88** is not recommended for use under VCT or other non-breathing flooring systems.

**Spal-Pro RS 88** is designed for interior use and may not be suitable for outdoor applications due to thermal movement.

**Spal-Pro RS 88** may exhibit bubbling and/or compromised adhesion if concrete or ambient moisture levels are excessive.

## 5. Correct Joint Design/Installation

**Spal-Pro RS 88** should be installed full joint depth in saw-cut contraction/control joints (or 2" minimum in saw-cut joints exceeding 2" in depth) per PCA and ACI guidelines.



In construction (formed) joints that are not saw-cut, **Spal-Pro RS 88** should be installed at a minimum 2" depth. **DO NOT USE COMPRESSIBLE BACKER ROD IN STANDARD SAW-CUT CONTRACTION/CONTROL JOINTS!** Rod may be used 2" down in construction joints or saw-cut joints exceeding 2" in depth ONLY.

Heavy-Duty Semi-Rigid Polyurea Joint Filler  
for Class 5-9 Industrial Concrete Floors

## TECHNICAL DATA

## RS-1



Low Emitting Sealant/Filler Complies with:

- BD&C, ID&C
- The WELL Building Standard
- ANSI/GBI 01, Green Building Assessment Protocol
- Green Guide for Healthcare V2.2

LEED  
v4.1

## 6. Advantages

- **Spal-Pro RS 88 is Rated "Heavy-Duty"**  
Unlike softer polyureas, **Spal-Pro RS 88's** higher shore hardness provides greater edge protection and support.
- **Spal-Pro RS 88 is "Rapid-Setting"**  
At 70°F (21°C) it can be opened to full traffic in as little as (60) minutes and light traffic in (30) minutes.
- **Spal-Pro RS 88 is Colorfast**  
**Spal-Pro RS 88** maintains a consistent color profile and resists fading and other discoloration under normal conditions.
- **Spal-Pro RS 88 is Ideal for Use in Stained/Polished Floors**  
**Spal-Pro RS 88** can be used to fill joints and cracks in polished concrete floors, and will not smudge or smear during grinding/polishing.

## 7. Color, Packaging and Accessories

Standard color is Standard Gray. Over 68 standard colors are also available. The product is also available in a Neutral version which can be field tinted with a Color Pack (included with kit if selected at time of purchase). Product is available in 10 gallon (US) kits (2-5 gallon US pails) and 600 ml (300:300) dual-cartridge convenience kits. An optional FAST PACK is available to accelerate initial gel/cure time.

## 8. Applicable Specifications

There are no government or ASTM standards for semi-rigid joint fillers. **Spal-Pro RS 88** meets or exceeds the criteria outline in the following industry standards:  
American Concrete Institute (ACI) Guides/Specifications:  
301-16, 302.1-R15, 310-R13, 360R-10  
Portland Cement Association (PCA):  
Concrete Floors on Ground, Third Edition 2008

## 9. USDA/FDA/CFIA/LEED v4.1 Approval

**Spal-Pro RS 88** is acceptable for use in USDA, FDA, and CFIA regulated facilities. **Spal-Pro RS 88** contains no VOC's and is fully compliant with USGBC® LEED v4.1 green building standards.

## 10. TECHNICAL PROPERTIES

TEST	METHOD	RESULTS
HARDNESS, SHORE "A" @ 70°F	D-2240	A86-90
TENSILE STRENGTH	D-638	970 PSI
TENSILE ELONGATION* (@ 70°F)	D-638	180%
ADHESION TO CONCRETE	D-4541	350-400 PSI
TACK FREE @ 70°F	-	5 Minutes
TRAFFIC READY @ 70°F	-	1 Hour
MIX RATIO (by vol.)	-	1:1
SOLIDS CONTENT	-	100%
SHRINKAGE	-	Negligible

This property provided only for comparison with other polyureas.  
Elongation is not an indication of expansion capability.



**11. Technical Assistance**

Complete technical support and literature are available from authorized distributors, through our web site ([www.metzgermcguire.com](http://www.metzgermcguire.com)) or by contacting our New Hampshire headquarters at (800) 223-MM80.

**12. Where to Specify and File**

**Spal-Pro RS 88** is exclusively for use in filling or maintaining contraction/control and construction joints in cast-in-place concrete floors. It is not an elastomeric sealant, and if referenced in the 079000 section it should only be specified under **079216 Rigid Joint Sealants**. Ideally the product should be specified in **030130 Maintenance of Cast-In-Place Concrete** or **030130.71 Rehabilitation of Cast-In-Place Concrete**.

**13. Quality Installation Programs**

Metzger/McGuire offers quality installation assurance programs for qualified projects. Contact Metzger/McGuire for specific information.

**14. Installation**

The following instructions are **ABBREVIATED**. Complete instructions are provided with each shipment.

**When to Install** - The installation of **Spal-Pro RS 88** should be deferred as long as possible after slab placement, and should not be installed prior to 30 days to ensure adequate adhesion. ACI recommends a slab cure of 60-90 days or longer, to permit for greater concrete shrinkage/joint opening, lessening the expected incidence of joint filler separation. Ambient areas should be stabilized at final operating temperature prior to installation, refrigerated/frozen goods areas stabilized and held for an additional 7-14 days or longer, if possible. Refer to **Technical Bulletins T5 (Filler Installation Timing)** and **T6 (Filler Timing for Refrigerated Buildings)** for additional information.

**Joint Preparation** - Joints should be completely free of saw laitance, dirt, debris, coatings/sealers and frost or visible moisture. Joint cleaning procedures must accomplish the removal of all of the above. Failure to do so will compromise adhesion. Simply "raking" debris out of joint is not an acceptable cleaning method. Preferred methods of joint cleaning include using a dustless concrete saw with diamond blade (ensure blade is slightly wider than joint or clean both sides) or sandblasting. No primer is needed. If unusual conditions are present, contact Metzger/McGuire.

Choking off the base of the joint is normally not required due to **Spal-Pro RS 88's** rapid set. **Do not use compressible backer rod (Ethafoam, etc) in saw-cut joints less than 2" deep.**

**Prior to Dispensing** - Thoroughly read SDS and complete installation instructions prior to opening containers or attempting to dispense.

**Spal-Pro RS 88** must be dispensed with dual-feed power dispensing equipment, or with pre-filled, dual-dispense cartridge kits. Manual dispensing is impractical due to short working life (1-2 minute gel time). Power dispensing systems should be set to a 1:1 ratio by volume. If installing in cooler temperatures, material should be maintained at a minimum temperature of 75°F (24°C) for best results. We recommend the use of a 1/2" diameter (ID) static mixer with 30 or 32 elements for material dispensing and proper mix. We strongly recommend performing periodic ratio checks on power dispense units to ensure proper cure.

Material provided in Part A Polyol pails should be thoroughly mixed to redistribute any settlement that may have occurred during shipping or storage. Cartridges should be shaken aggressively to accomplish same.

Pump tanks, lines and dispensing manifold should be clean and free of any residual materials remaining from previous filler installations.

**Dispensing**

Joints can be filled in one or two passes, depending upon joint depth and dispensing tip used. Preferred method is to fill from bottom to top using a dispensing tip that fits into the joint. Take care not to entrap air bubbles. Slightly overfill the joint, leaving a crowned profile, and allow to cure.

**Finishing**

The crown may be easily razored off as early as 15 minutes after placement, depending upon temperature. We recommend testing various shave times to find the optimal shave, which results in a filler profile that is flush with the floor's surface and free of any film from material overfill. If shave time is substantially delayed or if temperatures are low, **RS 88** shaving process

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**Finishing (Continued)**

may be more labored. Should filler cure below the floor surface (due to settlement into the void at base of joint, etc.), remove top 1/2" of filler and re-apply **RS 88**. Grinding/polishing operations should be deferred for one hour or more after placement. If using **FAST PACK** addition, 25-30 minutes or more.

**Cleanup**

Spills of unmixed components can be cleaned up with solvent (MEK, denatured alcohol, etc) or scraped/shaved off floor and tools if cured.

**15. Use in Ground/Polished Concrete Floors**

When sequencing product installation as part of a concrete grinding/polishing process, installation can be done prior to grinding/honing if the first tool used is to be 40 grit or higher. Installation can also be deferred until prior to the last metal or transitional tooling step. The earliest the installed filler should be subjected to honing is 30 minutes if using a wet process, 3-4 hours if using a dry process (at 70°F). See Technical Bulletin T21 for additional information on sequencing.

**Note:** Some higher grit polishing operations can generate sufficient heat to melt or smear joint fillers, depending upon equipment and job conditions. If melting or smearing is detected, stop operations and test potential methods of reducing slab surface heat, including misting joints with water, altering the speed of polishing operations, re-shaving the joint filler or changing tooling. Please contact our technical service department for more information or assistance.

**16. Maintenance**

Once cured, **Spal-Pro RS 88** is basically maintenance free. If joints should open after installation, fill voids with additional **Spal-Pro RS 88**. Refer to **Technical Bulletin T11 (Joint Filler Separation; Causes & Corrections)** for additional information.

**17. Approximate Coverage Chart**

Joint Size (US)	LF/Gal.	Joint Size (Metric)	M/Gal
1/8" x 1 1/2"	100	3 x 38	30
1/8" x 1 3/4"	85	3 x 44	26
1/8" x 2"	75	3 x 50	23
3/16" x 3/4"	135	5 x 19	41
3/16" x 1"	100	5 x 25	30
3/16" x 1 1/4"	85	5 x 31	26
3/16" x 1 1/2"	70	5 x 38	21
3/16" x 1 3/4"	60	5 x 44	18
3/16" x 2"	50	5 x 50	15
1/4" x 1"	80	6 x 25	24
1/4" x 1 1/4"	60	6 x 31	18
1/4" x 1 1/2"	50	6 x 44	14
1/4" x 1 3/4"	45	6 x 50	12
1/4" x 2"	40	9 x 25	15

**18. Safety**

This product is for industrial use only. Use only in well-ventilated areas. Practice all normal jobsite safety precautions (clear work area, etc). Refer to SDS and installation instructions for more information.

**19. Food Related Facilities**

**Spal-Pro RS 88** is acceptable for use in facilities regulated by USDA/FDA/CFIA. Contact us to discuss project details if contamination is a concern.

**20. Material Warranty**

**WARRANTY:** Metzger/McGuire Co. solely and expressly warrants that its Spal-Pro RS 88 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 warrant, 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.



# 2 in. (51 mm) Aluminum Bevel Bar – Commercial

## Product Details

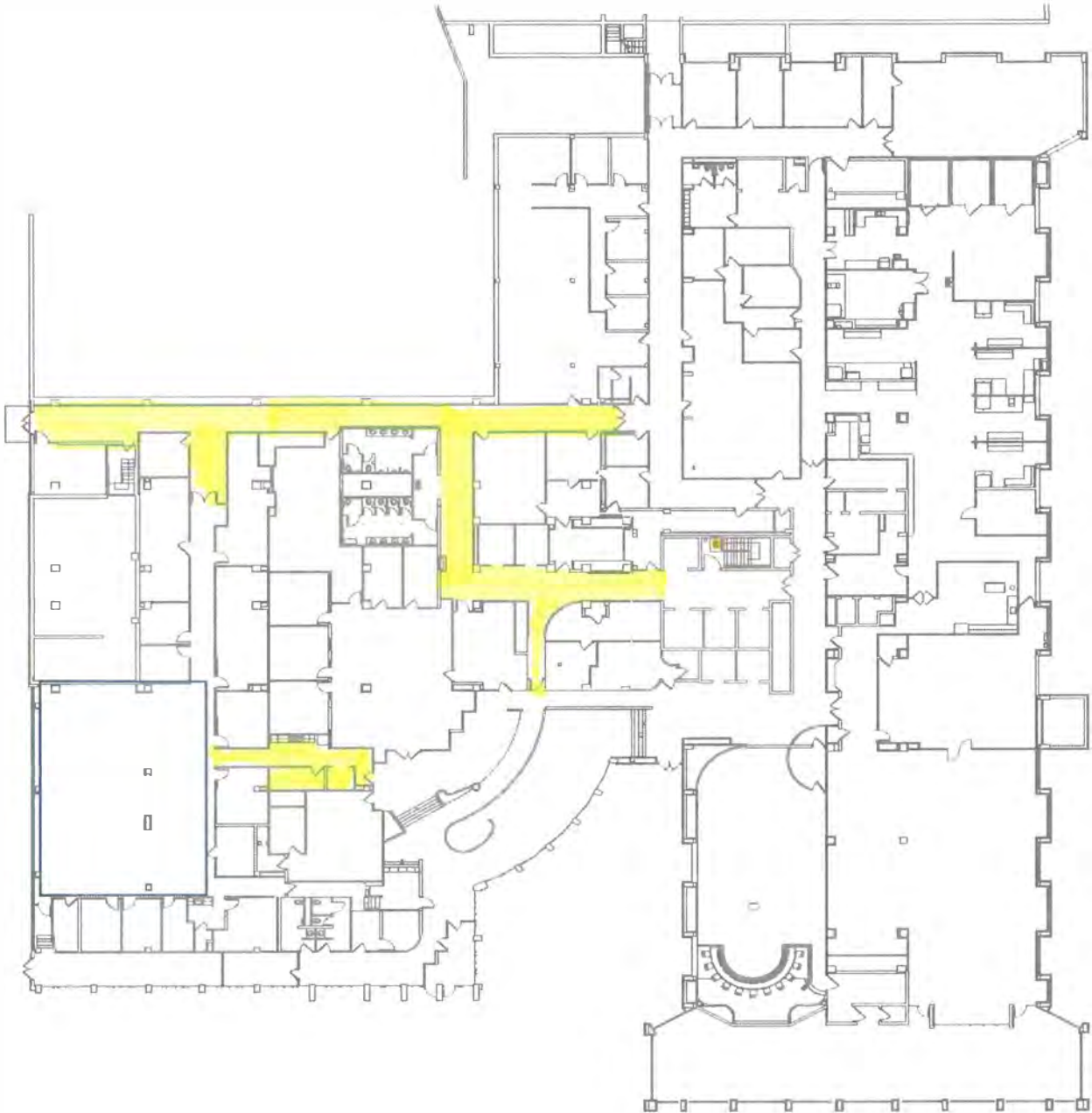
2" (51 mm) Commercial weight Bevel Bar for transitions

- Designed for use in high traffic areas or where extreme height differentials exist
- Made of durable hammered aluminum
- Attractive finish complements today's most popular flooring styles
- ADA compliant profile





ENNOVATION CENTER - FIRST FLOOR



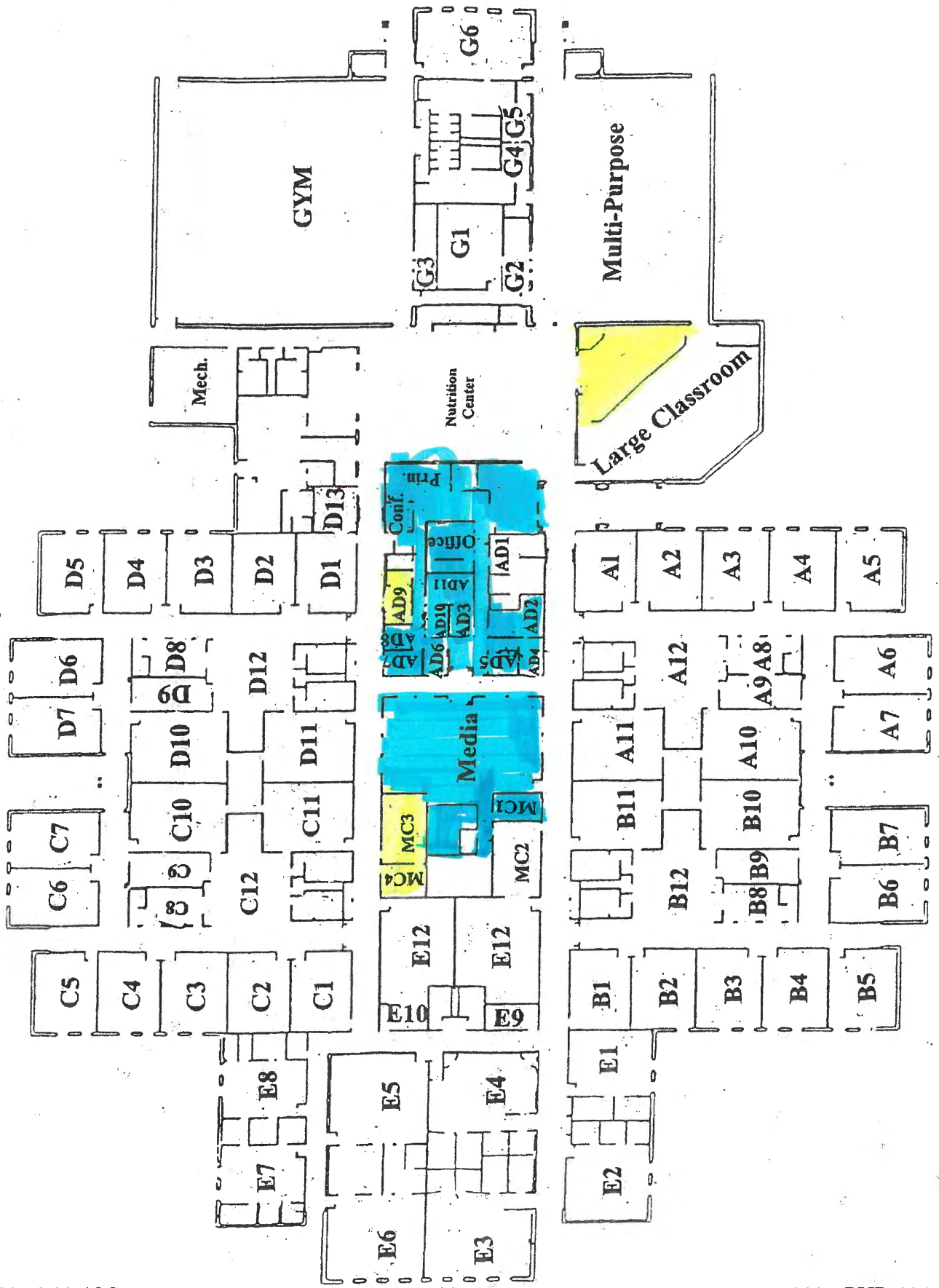
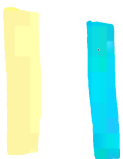
LVT



LVT & Carpet.

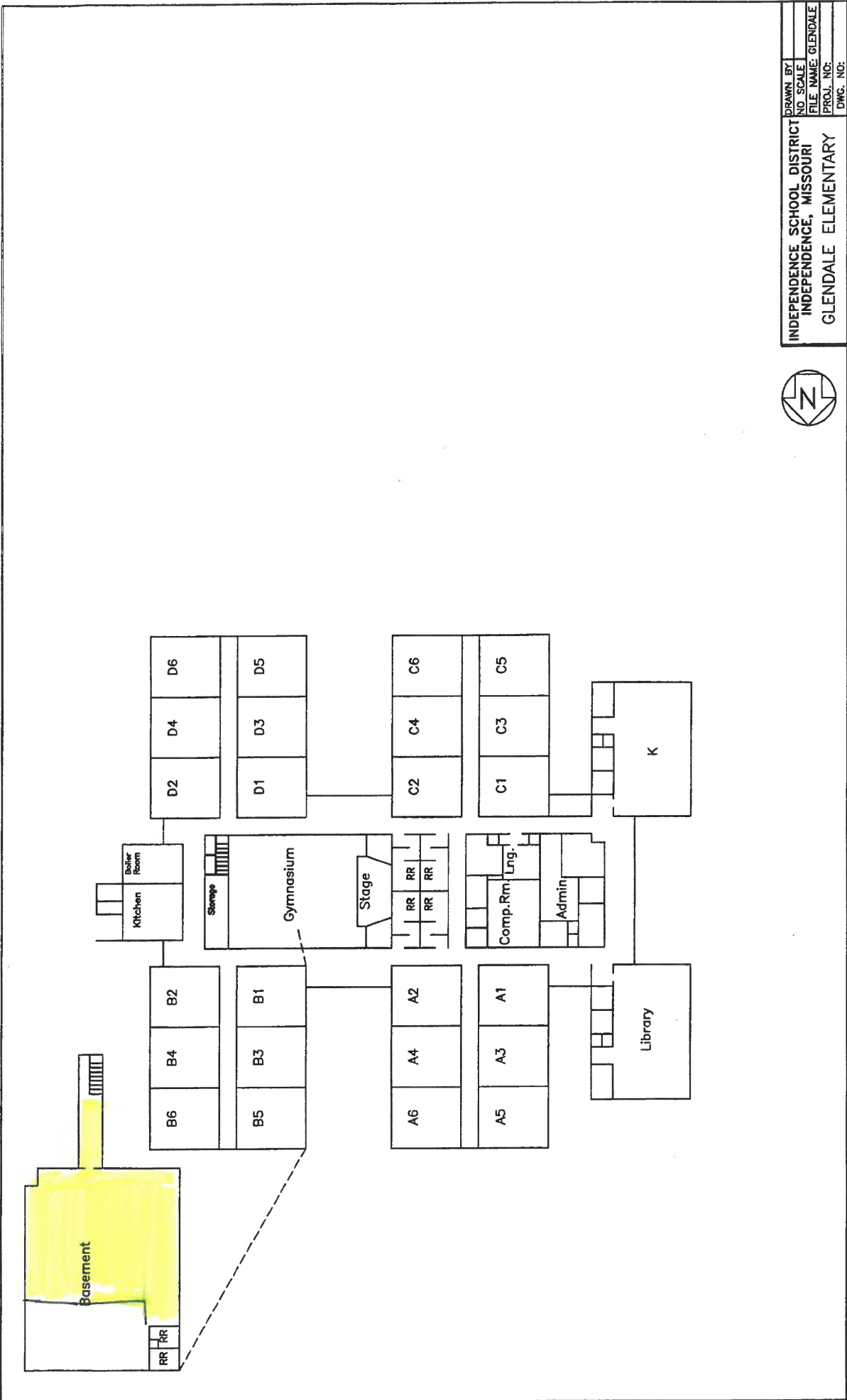
LVT

Carpet.





LYT





LVT.

Procter Elementary 2024-2025



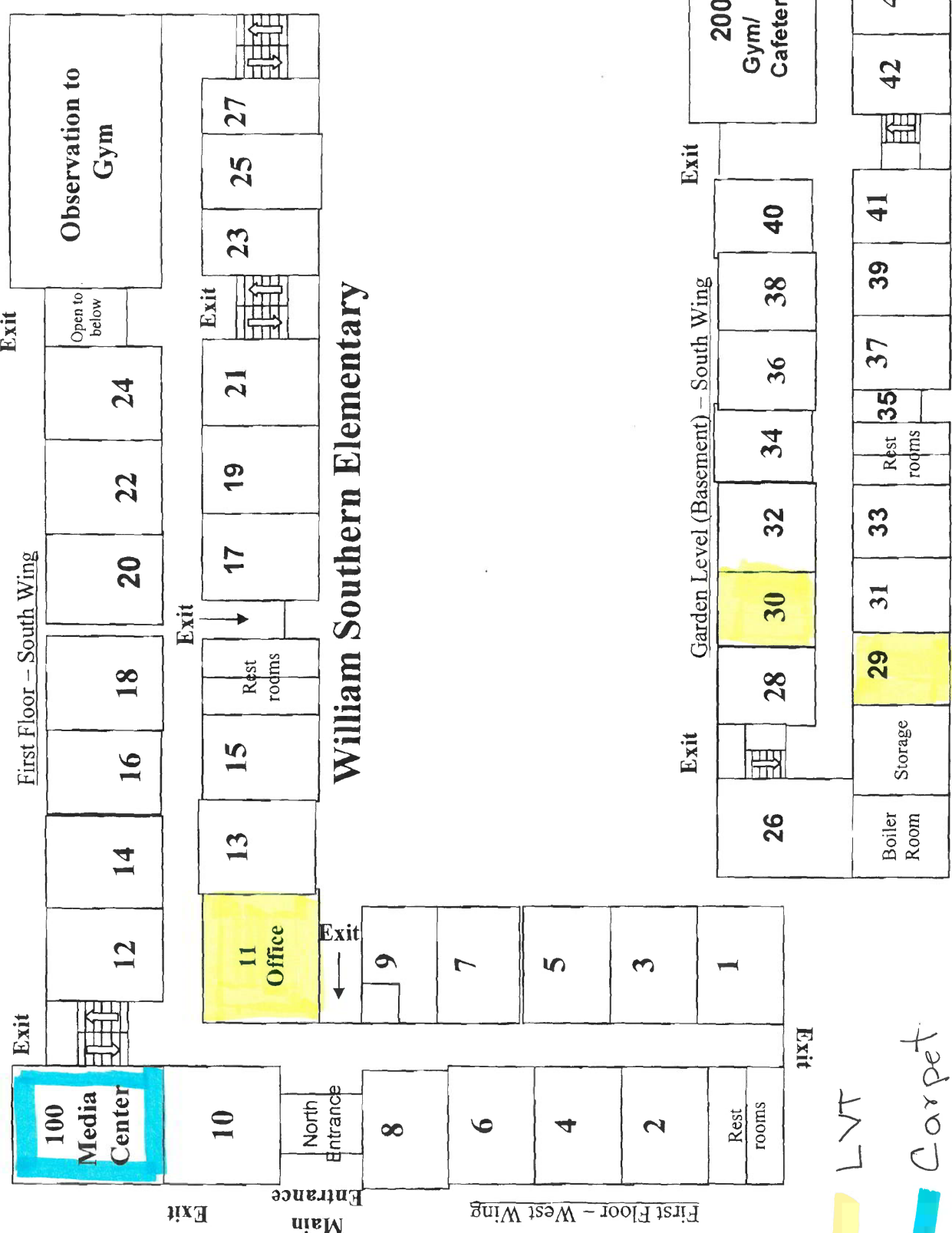
Ground Floor



LVI Carpet

NEW

Handwritten notes: 5000, CHARP, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600, 605, 610, 615, 620, 625, 630, 635, 640, 645, 650, 655, 660, 665, 670, 675, 680, 685, 690, 695, 700, 705, 710, 715, 720, 725, 730, 735, 740, 745, 750, 755, 760, 765, 770, 775, 780, 785, 790, 795, 800, 805, 810, 815, 820, 825, 830, 835, 840, 845, 850, 855, 860, 865, 870, 875, 880, 885, 890, 895, 900, 905, 910, 915, 920, 925, 930, 935, 940, 945, 950, 955, 960, 965, 970, 975, 980, 985, 990, 995, 1000

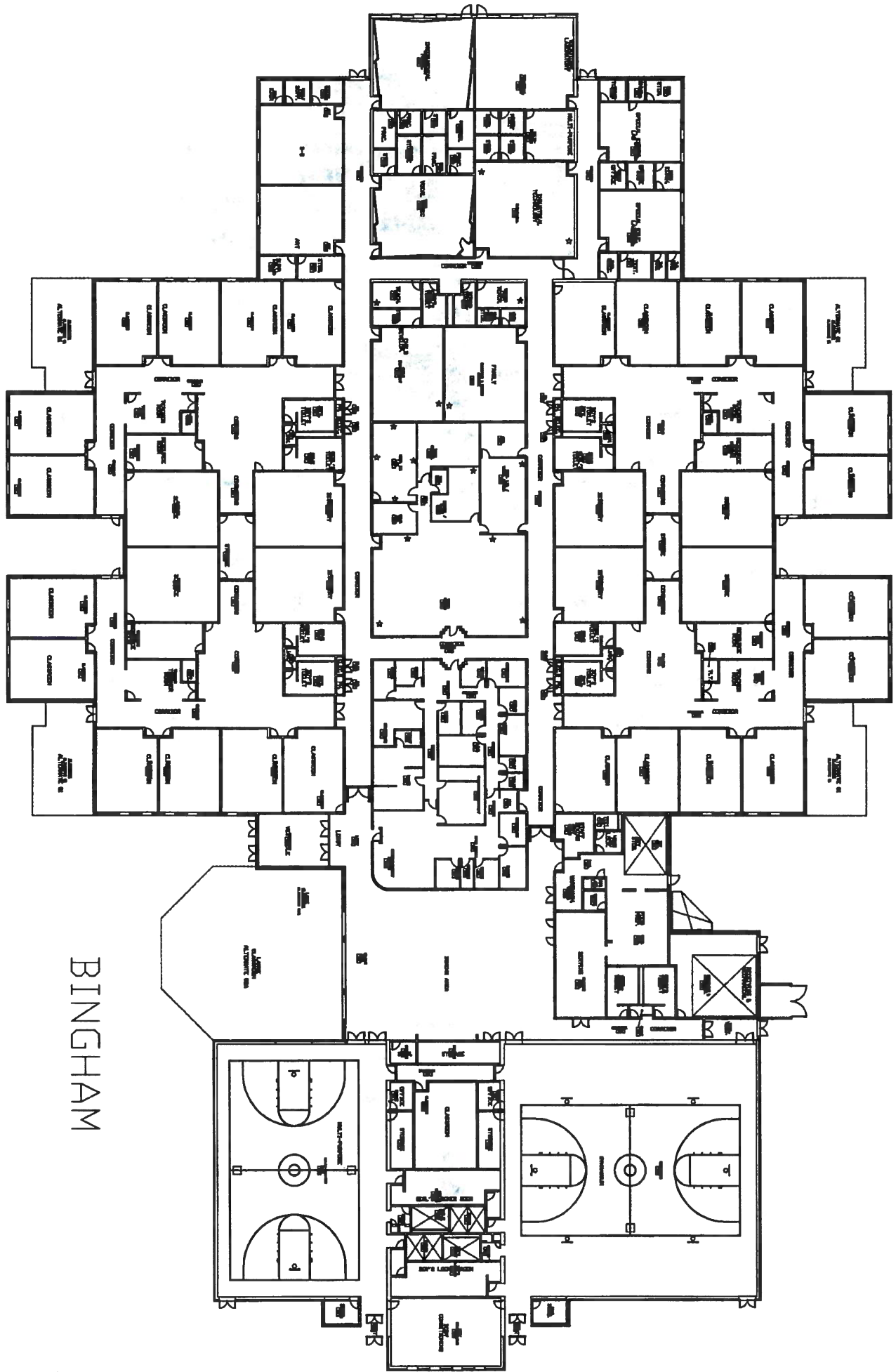


William Southern Elementary











Polished Concrete.

# Transportation map

