



## **GC Checklist**

The following qualifications should be addressed prior to and after the installation of Riverbed Concrete Inc. decorative concrete flooring. If any of the below requirements cannot be met, for any reason, please contact Riverbed Concrete Inc. @ 210.845.2008 to discuss other alternatives.

### **Pre-Qualifications:**

1. All paperwork, including approved work order estimates and RBC contracts should be turned in to RBC prior to the job start date. If the terms of the estimate define a 50/50 payment term, the down payment should be received by RBC prior to the start date.
2. Work should be scheduled after framing and before sheetrock for polished concrete flooring. Work should be scheduled after sheetrock and before paint and base board for stained and sealed concrete flooring.
3. Riverbed Concrete Inc. is routinely booked in advance with other clients up to 30 days. Please schedule your project start date early to help guarantee your desired start date and prevent project delays.
4. Concrete should be poured to the flatness and levelness ratings as indicated in the spec sheet and if a curing compound is desired, the Cure R (resin based) or similar product should be used as in the spec sheet.

### **Job-site/Work-site Qualifications:**

1. Worksite should be free from all construction debris prior to RBC's arrival.
2. Worksite should be swept and generally in "clean" condition.
3. Worksite should be clear of ALL other trades and workers. RBC must have sole access to its work areas.
4. Jobsite should provide access for (1) truck and (1) 24' trailer to safely back-up to a loading/landing area to adequately unload (3) 1400lbs. machines from a trailer door ramp.
5. Jobsite should provide access for (1) truck and (1) 12' trailer with attached 35KW generator, which will provide the power for our 220V and 110V requirements.
6. Jobsite should provide reasonable access to water. If water is not available on-site or water is located in an area inaccessible to wheeled carriers, water may be made available by RBC. RBC's provision of its own water source to the jobsite may add a reasonable fee for transportation and set-up.
7. GC should arrange with RBC to coordinate with the owner, representative, or qualified project manager to be onsite the morning of the start date to approve color and finish samples. (We generally ask that samples be approved by 10am the day of the project start date.)

### **Post Qualifications**

1. All hydraulic lifts should be diapered to prevent oil stains.
2. If you decide to cover the final polished concrete flooring, do so with a breathable covering. I.e. Cardboard, construction paper, etc. DO NOT COVER WITH PLASTIC.
3. DO NOT allow acids to come in contact with the polished concrete
4. DO use a neutral pH cleaner for the final clean of the floor surface
5. (Polished concrete only) If there are white blemishes on the finished floor use a green or black scrubbing pad affixed to a buffing machine or auto scrubber to remove.

I, \_\_\_\_\_ have read and am aware of the requests made by Riverbed Concrete Inc. for the above qualifications, and that the provision of these qualifications will help to ensure a successful installation. Delays resulting from the not executing the above qualifications will result in hourly penalties of \$120.00/hour.

## AMMENDED FROM SECTION 03510

### RIVERBED CONCRETE INC. POLISHED CONCRETE FINISHING

#### PART 1: GENERAL

##### 1.01 SECTION INCLUDES

- A. This Section specifies dyed and polished concrete.

##### 1.02 RELATED SECTIONS

- A. Section 03300 - Cast-in-Place Concrete.
- B. Section 07900 - Joint Sealers.

##### 1.03 REFERENCES

- A. ACI 302.1R Guide for Concrete Floor and Slab Construction; American Concrete Institute (ACI).
- B. ASTM C309 Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete.
- C. ASTM C171 Standard Specification for Sheet Materials for Curing Concrete.
- D. ASTM C779 Standard Test Method for Abrasion Resistance of Horizontal Concrete Surfaces.
- E. RILEM Test Method 11.4 Standard Measurement of Reduction of Moisture Penetration Through Horizontal Concrete Surfaces; Reunion Internationale des Laboratoires D'Essais et de Recherches sur les Materiaux et les Constructions (RILEM):
- F. NFSI Test Method 101-A Standard for Evaluating High-Traction Flooring Materials, Coatings, and Finishes; National Floor Safety Institute (NFSI).

##### 1.04 PERFORMANCE REQUIREMENTS

- A. Abrasion Resistance: ASTM C779, Method A, high resistance, no more than 0.008 inch (0.20 mm) wear in 30 minutes.
- B. Reflectivity: Increase of 35% as determined by standard gloss meter.
- C. Waterproof Properties: Rilem Test Method 11.4, 70% or greater reduction in absorption.
- D. High Traction Rating: NFSI 101-A, non-slip properties.

##### 1.05 SUBMITTALS

- A. See Section 01300 - Administrative Requirements, for submittal procedures.
- B. Product Data: Submit manufacturers' data on manufactured products showing compliance with specified requirements.
  - 1. Material Safety Data Sheets (MSDS).
  - 2. Preparation and concrete grinding procedures.
  - 3. Colored Concrete Surface, Dye Selection Guides.
- C. Sample Panels: Prepare minimum 6' X 6' sample panels of all proposed concrete finishes, colors, etc. until approved by Architect. Panels may be placed in areas where they remain after selection, however this is not guaranteed.
- D. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties as cited in 1.03 Performance Requirements.
- E. Certificates:
  - 1. Product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.

2. Letter of certification from the National Floor Safety Institute confirming the system has been tested and passed phase Two Level of certification when tested by Method 101-A.
3. Manufacturer's Instructions: Manufacturer's installation instructions.

#### **1.06 QUALITY ASSURANCE**

- A. Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
- B. Installer trained and holding current certification for product installation.
- C. Manufacturer Qualifications: Manufacturer capable of providing field service representation during construction and approving application method. Ensure manufacturer has minimum 5 years experience in manufacturing components similar to or exceeding requirements of project.
- C. Applicator Qualifications: Company specializing in performing the work of this section.

#### **1.07 DESIGN REQUIREMENTS:** Mix designs should be approved by Engineer/Architect

- A. Hardened Concrete Properties
  1. Minimum concrete compressive strength: 3000 psi
  2. Normal weight concrete. No lightweight aggregate
  3. Non-air entrained
- B. Placement Properties
  1. Natural concrete slump of 4"-6". Admixtures may be used at a minimum.
  2. Flatness Requirements:
    - a. Flatness 40
    - b. Level 30
- C. Hard-Steel troweled (3 passes) concrete. No burn marks. Finish to ACI 302.1R, Class 5 floor
- D. Curing Option
  1. Acrylic curing and sealing compounds not recommended
  2. Sheet membrane (ASTM C171); polyethylene film not recommended
  3. Damp Curing: Seven day cure
  4. L & M Construction Chemicals, Inc: [www.LMCC.com](http://www.LMCC.com), Cure R
  5. LM Scofield Co.: [www.scofield.com](http://www.scofield.com), Lithochrome Colorwax

#### **1.08 ENVIRONMENTAL REQUIREMENTS**

- A. Maintain temperature and humidity recommended by the manufacturer during and after installation.
- B. See Additional Requirements; Environmental Requirements (pg. 6 of this document)

#### **1.09 COORDINATION**

- A. Coordinate the work with all sections referencing this section.
- B. See Additional Requirements; Mock-Ups (pg. 6 of this document)

#### **1.10 WARRANTY**

- A. See Section 01780 - Closeout Submittals, for additional warranty requirements.
- B. Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and does not

limit, other rights Owner may have under Contract Documents

## **PART 2: PRODUCTS**

### **2.01 MANUFACTURERS – POLISHED CONCRETE FINISHING PRODUCTS**

- A. L & M Construction Chemicals, Inc: [www.LMCC.com](http://www.LMCC.com)
- B. W. R. Meadows: [www.wrmeadows.com](http://www.wrmeadows.com)
- C. Prosoco, Inc.: [www.prosoco.com](http://www.prosoco.com)
- D. LM Scofield Co.: [www.scofield.com](http://www.scofield.com)
- E. Substitutions: See Section 01600 - Product Requirements.

### **2.02 POLISHED CONCRETE FINISHING PRODUCTS**

- A. Hardener, Sealer, Densifier: Proprietary, water based, odorless liquid, VOC compliant, environmentally safe chemical hardening solution leaving no surface film.
  - 1. L & M Construction Chemicals, Inc: [www.LMCC.com](http://www.LMCC.com), FGS Hardener Plus.
  - 2. W. R. Meadows: [www.wrmeadows.com](http://www.wrmeadows.com), Liqui-Hard.
  - 3. Prosoco, Inc.: [www.prosoco.com](http://www.prosoco.com), Consolideck, LS.
  - 4. LM Scofield Co.: [www.scofield.com](http://www.scofield.com), Formula One Lithium Densifier MP.
  - 5. Substitutions: See Section 01600 - Product Requirements.
- B. Joint Filler: Semi-rigid, 2-component, self-leveling, 100% solids, rapid curing, polyurea control joint and crack filler with Shore A 80 or higher hardness.
  - 1. L & M Construction Chemicals, Inc: [www.LMCC.com](http://www.LMCC.com), Joint Tite 750.
  - 2. Substitutions: See Section 01600 - Product Requirements.
- C. Oil Repellent Sealer: Ready to use, silane, siloxane and fluoropolymers blended water based solution sealer, quick drying, low-odor, oil and water repellent, VOC compliant and compatible with chemically hardened floors.
  - 1. L & M Construction Chemicals, Inc: [www.LMCC.com](http://www.LMCC.com), Petrotex.
  - 2. Substitutions: See Section 01600 - Product Requirements.
- D. Surface Protection System. (Restrooms only) Quick drying, low odor, water based solution containing a new generation of organic, cross linking, low molecular weight polymers that penetrate and leave a non-darkening film that effectively protects concrete surfaces from oil drippings, food stains and urine. This product is compatible with and recommended for use with chemically hardened and densified concrete floors.
  - 1. L & M Construction Chemicals, Inc: [www.LMCC.com](http://www.LMCC.com), PermaGuard SPS
  - 2. W. R. Meadows: [www.wrmeadows.com](http://www.wrmeadows.com), Bellatrix.
  - 3. Prosoco, Inc.: [www.prosoco.com](http://www.prosoco.com), Consolideck LS Guard.
  - 4. Substitutions: See Section 01600 - Product Requirements.
- E. Concrete Dyes (optional): Fast-drying dye, packaged in premeasured units ready for mixing with VOC exempt solvent; formulated for application to polished cementitious surfaces.
  - 1. L & M Construction Chemicals, Inc: [www.LMCC.com](http://www.LMCC.com), Vivid Concrete Dyes.
  - 2. Prosoco, Inc.: [www.prosoco.com](http://www.prosoco.com): GemTone Stain.
  - 3. Substitutions: See Section 01600 - Product Requirements.
- F. Cleaning Solution: Proprietary, mild, highly concentrated liquid concrete cleaner and conditioner containing wetting and emulsifying agents; biodegradable, environmentally safe and certified High Traction by National Floor Safety Institute (NFSI).
  - 1. L & M Construction Chemicals, Inc: [www.LMCC.com](http://www.LMCC.com), FGS Concrete Conditioner.

2. Riverbed Concrete Inc.: [www.riverbedconcrete.com](http://www.riverbedconcrete.com), Conditioner.
  3. Riverbed Concrete Inc.: [www.riverbedconcrete.com](http://www.riverbedconcrete.com), General Cleaner.
  4. Substitutions: See Section 01600 - Product Requirements.
- G. Finish: Standard Medium gloss (MG-2), 800 grit; Standard High gloss (HG-1), 1500 grit; Standard Very High gloss (VGH-3), 3000 grit (installation as per approved mock up)
- H. Color: To be selected from manufactures 24 standard colors.
1. L & M Construction Chemicals, Inc: [www.LMCC.com](http://www.LMCC.com), Vivid Dye.
  2. Prosoco, Inc.: [www.prosoco.com](http://www.prosoco.com): GemTone Stain.
  3. Substitutions: See Section 01600 - Product Requirements.
- I. Source Quality Control: Ensure concrete finishing components and materials are from single manufacturer.

## **PART 3: EXECUTION**

### **3.01 EXAMINATION**

- A. Site Verification of Conditions.
1. Verify that concrete substrate conditions, which have been previously installed under other sections or contracts, are acceptable for product installation in accordance with manufacturer's instructions prior to installation of concrete finishing materials.

### **3.02 PREPARATION**

- A. Ensure surfaces are clean and free of dirt and other foreign matter harmful to performance of concrete finishing materials.
- B. Examine surface to determine soundness of concrete for polishing.
- C. Remove surface contamination.

### **3.02 INSTALLATION**

- A. Floor Surface Polishing and Treatment: Coordinate installation with the manufacturer's written installation details and instructions.
1. Provide polished concrete floor treatment in entirety of slab indicated by drawings. Provide consistent finish in all contiguous areas.
  2. Apply floor finish prior to installation of fixtures and accessories.
  3. Diamond polish concrete floor surfaces with power disc machine recommended by floor finish manufacturer. Sequence with coarse to fine grit using dry method.
    - a. Comply with manufacturer's recommended polishing grits for each sequence to achieve desired finish level. Level of sheen shall match that of approved mock-up.
    - b. Expose aggregate in concrete surface only as determined by approved mock-up.
    - c. All concrete surfaces shall be as uniform in appearance as possible.
  4. Dyed and Polished Concrete (option):
    - a. Locate demarcation line between dyed surfaces and other finishes.
    - b. Polish concrete to final finish level.
    - c. Apply diluted dyes to polished concrete surface.
    - d. Allow dye to dry.
    - e. Remove residue with dry buffer; reapply as necessary for desired result.
  5. Apply FGS Hardener Plus, Hardener, Densifier As Follows:
    - a. First coat at 250 ft<sup>2</sup>/gal (6.25 m<sup>2</sup>/L).
    - b. Second coat at 350 ft<sup>2</sup>/gal (8.75 m<sup>2</sup>/L).
    - c. Follow manufacturer's recommendations for drying time between successive coats.

- d. Substitutions: See Section 01600 - Product Requirements.
- 6. Remove defects and repolish defective areas.
- 7. Finish edges of floor finish adjoining other materials in a clean and sharp manner.

### **3.02 ADJUSTMENTS**

- A. Polish to higher gloss those areas not meeting specified gloss levels per mock-up.
- B. Fill joints flush to surface.

### **3.02 CLEANING**

- A. Mechanically scrub treated floors for seven days with soft to medium pads with approved cleaning solution.
- B. Upon completion, remove surplus and excess materials, rubbish, tools and equipment.

### **3.02 PROTECTION**

- A. Protect installed product from damage during construction.

**END OF SECTION**

# RIVERBED CONCRETE

HAND CRAFTED CONCRETE COUNTERTOPS AND FLOORS

## POLISHED CONCRETE FINISHING

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### Additional Requirements

#### A. Mock Ups:

1. General contractor to notify Riverbed Concrete (RBC) prior to the pour to schedule installation of a mock up
2. Reserve 100 square feet for each color and finish (grit and shine level) at location adjacent to floor that will receive polishing. The concrete consisting of the mock up floor shall be placed on the same day, preferably the same pour as the concrete for the floors to be polished. Mock up should be place in an area to give RBC an un obstructed work environment that is accessible to water and electrical requirements.
3. Install mock ups to verify selection made and to demonstrate methods and workmanship proposed for the project. If mock up is not possible, submitted samples from the RBC showroom will be accepted as demonstrating methods and workmanship but not the final finish.
4. Aggregate selected must be tested or proven to ensure it will accept a polish.
5. If stand alone mock up is required, form should be clean and free from extraneous substances and be at least a 12'x12' surface area with a level bottom on level ground with unobstructed access around all four sides. Stand alone mock up should be place in an area to give RBC an un obstructed work environment that is accessible to water and electrical requirements.
6. Control joints should be included in mock up. Sawing performed by general contractor can begin as soon as the surface is firm enough to not displace any of the aggregate or ravel the edge.
7. Edge should be included in mock up.
8. Approved mock ups may become part of the completed work.

B. Protection: General contractor shall protect areas to receive polished concrete finish at all times during construction to prevent oils, dirt, metal, excessive water and other potentially damaging materials from affecting the finished concrete surface. Protection measures listed below shall begin immediately after the concrete slab is poured:

1. All hydraulic powered equipment shall be diapered to avoid staining of the concrete.
2. All vehicle parking shall be prohibited on the finish slab area. If necessary to complete their scope of work, drop clothes shall be placed under vehicles at all times.
3. No pipe cutting machines shall be used on the finish floor slab
4. Steel shall not be placed on the finish slab to avoid rusting. Lumber and other building materials should not be store on the concrete slab for any length of time.
5. Acids and acidic detergents will not come in contact with the slab.
6. All painters will use drop cloths on the concrete. If paint gets on the concrete, it must be immediately removed.
7. All trades will be informed that the slab must be protected at all times.
8. Refrain from using silicone chalks (Red and yellow chalks consist of permanent dyes that will negatively affect the final outcome of the project.)
9. It is imperative that wood, sheet goods, sections of framing and the like not lay on the slab for long periods of time. They can transfer resins and tannins that can alter the moisture content in the slab and leave a permanent likeness in the finished floor.
10. Protect the slab from the following: red and yellow chalk, foam insulation, curing compounds, oils, grease, polyurethane, adhesive, flux, gas, muratic acid, PVC primer, diesel, wood or other colorants/stains, etc.

### C. Environmental Limitations

1. Comply with manufactures written instructions for substrate temperatures and moisture content, ambient temperature and humidity, ventilation and other conditions affecting chemical performance.
2. Flatness and levelness
  - a. Finished concrete shall have a minimum floor flatness rating of at least 40
  - b. Finished concrete shall have a minimum floor levelness rating of at least 30.
  - c. Finished concrete shall be cured a minimum of 28 days or at which point polishing equipment can be used on the slab and does not displace fines or aggregate.
3. Application of finish system shall take place prior to fixture, cabinets, and trim installation.
4. Polished concrete area shall be closed to traffic during polished flooring installation and protected from damage after installation for the time recommended by the manufacturer.
5. It is important that the concrete be thoroughly finished with hand tools around plumbing, risers, floor outlets, or any other element which is not accessible to the machine.
6. Framers should brace the wall to the outside and not the slab. Doorplates should be cut away immediately.

### D. Concrete Mix Design:

1. Concrete mixture shall be 3000 psi or higher, non air entrained.
  - a. Any admixtures, pasticizers, slag, fly ash or anything taking the place of Portland based cement shall be kept to a minimum.
  - b. The cement shall be Portland Cement Type I-2, conforming to ASTM C 150
  - c. Maintain concrete temperature below 85 degrees. Keep concrete as cool and moist for as long as possible. In essence, decrease rate of de-hydration and drying to minimize cracking.
  - d. Wet cures are most suitable, but if this cannot be achieved, use L&M Construction Chemicals product: Cure R, applied to manufactures instruction.
  - e. All mix designs must be approved by the Architect. Send all approved mix designs to Riverbed Concrete Inc.
  - f. The Engineer/Architect shall determine the saw cut patterns, color and layout.
  - g. Use same source for cement, aggregate and pozzolans throughout the job. Monitor and control incoming material consistency. Do not use calcium chloride-based admixtures. Non-Cholride admixtures may be used.
  - h. Wash out all drums before loading. Keep slumps consistent with a max of 4"-6" slump. Minimize driver added water maintaining a .45 water content ratio.
  - i. Place the concrete to achieve as true and smooth a top surface as possible. Mounds or dips are not acceptable. GC shall control overall flatness and levelness, including sloping areas to within tolerances permitted by specification – ASTM E1155.
  - j. Slab shall be protected from indention and footprints during pour and curing.

### E. Installation

1. Riverbed Concrete will require sole access to the contracted application area.
2. Electrical requirements within 100 feet from the extremity of application area. If the below requirements can not be met, arrangements must be made for an onsite generator.
  - k. (1) 220V 30 amp female with 3 prong twist lock plug
  - l. (1) 220V 70 amp female with 3 prong twist lock plug
  - m. (4) 110V on separate 20 amp breakers. GFRC outlet plugs
3. Scheduling: Riverbed Concrete should be scheduled for a start date no later than 3-4 weeks from start date



## **RIVERBED CONCRETE: Contract for Polished Concrete Flooring**

The final result of any polished concrete flooring system is determined primarily on the quality of the pour and the ongoing protection of the slab during construction. The Builder is responsible for relaying the following important information to the concrete contractor and all other sub contractors involved. COMMUNICATION is vital for the success of this project.

### **POLISHED CONCRETE FLOORING:**

**General:** Polished Concrete is an economical, durable, low-maintenance flooring solution that is aesthetically pleasing which can be made into a one-of-a-kind work of art. This unique flooring system has many characteristics. Below is a list of these characteristics inherent with a polished concrete floor.

1. Some floors may be completely damaged, in which case an overlayment product may better fit your needs.
2. We will work with the condition of the concrete. Cracks, chips and stains that are currently in the concrete may still be visible upon completion of polishing. If the current floor is uneven there may be extreme variation in aggregate exposure or undulation in the concrete surface. Riverbed concrete is not contracted to grind uneven concrete flat.
3. We can work with and advise the contractor that will be placing the concrete. This will help achieve the proper conditions for polishing. If our recommendations for the placement of the concrete are not achieved, the finished product can be greatly affected.
4. If existing concrete is full of cracks and chip outs, polished concrete may not be the right choice for your flooring needs.
5. For new concrete we recommend that you work with your Engineer/Architect to design a control joint pattern to minimize cracking. We recommend a max of 10ft between control joints. Our assistance with a control joint layout **does not** guarantee that your floor will be free from random cracking.
6. If included in the approved estimate, cracks in both old and new concrete will be filled to remove any hole that may act as a "dirt trap". Filled cracks are a patch and will not match with the remainder of the floor. They will still be noticeable upon completion of the polishing process.

### **Concrete Placement and Finishing**

1. A quality batch of concrete should consist of 3000psi or higher mixture with minimal additives, fillers or curing agents (no fly-ash, retarders, or chloride accelerators), and that is non air entrained. We encourage a smooth hard, MACHINE troweled finish for interior surfaces, all the way to the edges of the slab; swirls from troweling will not be removed from the slab in most cases.
2. It is important that the concrete be thoroughly finished with hand tools around plumbing, risers, floor outlets, or any other element, which is not accessible to the machine.
  - A. Hardened Concrete Properties
    1. Minimum concrete compressive strength: 3000 psi
    2. Normal weight concrete. No lightweight aggregate
    3. Non-air entrained
  - B. Placement Properties



1. Natural concrete slump of 4"-6". Admixtures may be used at a minimum.
2. Flatness Requirements:
  - a. Flatness 40
  - b. Level 30
- C. Hard-Steel troweled (3 passes) concrete. No burn marks. Finish to ACI 302.1R, Class 5 floor
- D. Curing Options
  1. Acrylic curing and sealing compounds not recommended
  2. Sheet membrane (ASTM C171); polyethylene film not recommended
  3. Damp Curing: Seven day cure
  4. L & M Construction Chemicals, Inc: [www.LMCC.com](http://www.LMCC.com), Cure R

**Concrete Protection:** General contractor shall protect areas to receive polished concrete finish at all times during construction to prevent oils, dirt, metal, excessive water and other potentially damaging materials from affecting the finished concrete surface. Protection measures listed below shall begin immediately after the concrete slab is poured:

1. Please refrain from using silicone chalks; the red and yellow chalks consist of permanent dyes that will negatively affect the final outcome of the project. Do not to over mark for framing, or use silicone or other sprays to "hold" lines.
2. It is imperative that wood, sheet goods, sections of framing and the like not lay on the slab for long periods of time. They can transfer resins and tannins that can alter the moisture content in the slab and leaves a permanent likeness in the finished floor.
3. It is important that you do not apply tape directly to the floor. When covering the flooring, overlap sheets of builder's paper; first by taping directly to the wall then overlap the additional sheets to the original piece. This is IMPAIRATIVE; the tape alters the curing process and transfers chemicals to the slab and will show in the finished product. (Duck tape masking tape, packing tape, blue tape, green tape, and electrical tape, are not to be used. When covering the floor, you may use sheets of masonite or cardboard, on top of builders paper. Do not cover the slab with plastic at any time. It interferes with the curing process of the slab, and causes efflorescence. Riverbed Concrete is not responsible for moisture or related concerns.

**The floor should be protected from the following:**

RED CHALK	MARKERS	COFFEE
FOAM INSULATION	SPRAY PAINTS	METAL NAILS/RUST
CURING COMPOUND	CRAYONS	FOOD
OILS	MURATIC ACID	GREASE
GREASE	PAINT	COKE
POLYURETHANE	PVC PRIMER/CLEANER	LUMBER, SAW DUST, BOARDS, ETC.
ADHESIVE	DIESEL	STAIN
FLUX	WAX PENCIL	PAINT
GAS	PRIMER	

- All hydraulic powered equipment shall be diapered to avoid staining of the concrete.
- All vehicle parking shall be prohibited on the finish slab area. If necessary to complete their scope of work, drop clothes shall be placed under vehicles at all times.
- No pipe cutting machines shall be used on the finish floor slab



- Steel shall not be placed on the finish slab to avoid rusting. Lumber and other building materials should not be stored on the concrete slab for any length of time.
- Acids and acidic detergents will not come in contact with the slab.
- All painters will use drop cloths on the concrete. If paint gets on the concrete, it must be immediately removed.
- All trades will be informed that the slab must be protected at all times.

4. The framers should brace the wall to the outside and not the slab. The doorplates should be cut away immediately.

5. The floors should be clean and the rooms empty of debris before our crew arrives. Our price does not include; removing paper, moving furniture, tools, equipment, fixtures, building materials or otherwise. There should be no other trades on the floors or scheduled at the same time as Riverbed Concrete.

### **Scheduling and Installation Procedures**

1. Riverbed Concrete will require sole access to the contracted application area, unless otherwise approved. Riverbed Concrete will not be held liable for outcomes resulting from damages subjected to the work area prior to, or after the contracted dates. Riverbed Concrete will not be held liable for any damage caused by trades or other traffic during the contracted period.

2. We make every effort to provide beautiful and cost effective floors. Our fees do not include:  
a. Post construction cleaning, sealing, waxing, protective covering, or any other service not itemized in the bid. Our fees are based on square footage. We measure wall to wall, we do not credit for cabinets, built-ins etc. This is the industry standard.

3. All prices, unless otherwise specified are for stained concrete flooring to be scheduled after sheetrock, but before paint and baseboards or any other point in construction when tape and paper protection is not required to protect finished interior or exterior materials/items. If it is necessary to tape and paper, an added fee of no less than \$.30/sq.ft. will be added to the final invoice.

4. To insure proper scheduling, please contact us at least 3-4 weeks in advance. We work very hard to accommodate most schedules. Please assist us by communicating your project status and any questions or concerns you may have. We are committed to the outcome of the project. We appreciate that you are too.

5. Installation of flooring system shall take place prior to fixture, cabinets, and trim installation. Additional fees will be applied for obstacles, obstructions and the like, which hinder the movement and implementation of our process.

6. Polished concrete area shall be closed to traffic during polished flooring installation and protected from damage after installation for the time recommended by the manufacturer.

7. Mock ups will be made available for the client's approval. Client should arrange to be at the jobsite immediately upon mock up completion. If client is unable to be onsite for approval, Riverbed Concrete will not stop work, and will continue job progress at Riverbed Concrete's professional discretion. The characteristics of a mock up cannot be reproduced over the entire



concrete floor. Every piece of concrete has variations that can be found throughout the floor prior to polishing. These variations will transfer over during the polishing process. Therefore, color, level of finish and aggregate exposure will differ from that of the mock up

### **Requirements**

Running water needs to be available, and trash receptacles. Sufficient ventilation, water sources, power sources, and lighting will be provided by the second party. If either of these site conditions are not adequate or become compromised during the contracted period, the completion date will be altered to Riverbed Concrete's desired date. Overtime rates will become applicable upon said circumstance.

1. Riverbed Concrete will require sole access to the contracted application area.
2. Electrical requirements within 100 feet from the extremity of application area. If the below requirements can not be met, arrangements must be made for an onsite generator which will be invoiced to the second party.
  - a. (1) 220V 30 amp female with 3 prong twist lock plug
  - b. (1) 220V 70 amp female with 3 prong twist lock plug
  - c. (4) 110V on separate 20 amp breakers. GFRC outlet plugs

### **Colorants: Acid Stains, Dyes and Integral Color**

1. Acid stains are chemical metallic salts, which seek out and react with the lime in the concrete. They can be manipulated, but not controlled, and anticipated but not guaranteed. Our color chart shows color reactions, but every slab is different. All elements and conditions affect the outcome of the floors. Exact colors and stain patterns cannot be achieved, it is important that all parties understand this.

1a. It has been explained to the second party that acid stains have a chemical reaction with the concrete to be stained. These reactions are often unpredictable and unique to each individual slab. The desirable, non uniform nature of acid stains are referred to as color modeling and can be experienced for a variety of reasons and expressed in a variety of forms. Color modeling is very common when using acid stains, and should be anticipated by the second party. The quality and condition of the slab to be stained is not the responsibility of Riverbed Concrete.

How Acid Stains Work- Acid stains, which are metallic salts in an acidic, water based solution, react with hydrated lime in hardened concrete to yield insoluble colored compounds that become a permanent part of the concrete surface. The acid in chemical stains, etch the surface allowing the metallic salts to reach and react with free lime deposits. Chemically altered dense surfaces, caused by hardeners, densifiers, or curing compounds can prevent the stain from adequately penetrating the slab surface, resulting in an excessively modeled appearance.

2. Concrete dyes are translucent, penetrating color solutions suspended in either a water or solvent solution. Unlike acid stains they do not react chemically with concrete. Instead, they

contain very fine coloring agents that penetrate into the concrete surface. Similar to stains, dyes can be manipulated, but not controlled, and anticipated but not guaranteed. Our color chart shows color reactions, but every slab is different. All elements and conditions affect the outcome



of the floors. Exact colors and stain patterns cannot be achieved, it is important that all parties understand this. These extra fine coloring agents work well for diamond polished concrete for their ability to penetrate tight concrete surfaces. Dyes may also be used for any traditional interior concrete flooring application (hand or machine trowel), and exhibit a wide range of available colors that can be mixed to create custom hues. Concrete dyes are **not** UV stable thus making them unsuitable for exterior application.

3. Integral colorants may be added to the concrete mix design during placement of the concrete. Integral colorants are very suitable for polished concrete flooring and can produce very even coloring if executed properly. Integral colorants should be used and specified with caution due to a high degree of variability in final color caused by, but not limited to: concrete slump, water content, curing conditions, admixtures, concrete ingredients, batch water, driver added water, sun/shade exposure, etc.

### **Variations in Finish and Aggregate Exposure**

1. For new and existing construction we have no control over how the concrete was placed. Under these circumstances we cannot guarantee uniformity in finish or aggregate exposure.
2. Aggregate exposure at edges may not be consistent with majority of the floor. In some cases we will recommend a base trim around edges of a secondary concrete treatment. (Equipment characteristics limit grinding and polishing to within ½ "of the edge.) An edge detail or separation of edge from main flooring may be required and will be itemized in the final invoice.
3. The flooring under toe-kick, drinking fountains, cabinets, counters, and other similar objects which prevent adequate access may not have the same consistency as the main body of the floor. We recommend grinding and polishing prior to the installation of such objects.
3. Highs and lows in the floor may cause areas of greater and lesser grind that can lead to a variation in aggregate exposure and finish.

### **Performance Characteristics**

1. The finished floor is susceptible to staining, scratching, chip-outs, and wear resulting in a loss of gloss/shine
2. On most floors there will be a densifier and in certain areas a secondary stain resist product used which will help protect the floor. These products will buy time to clean a spill. If spills are not cleaned in a timely manner the densifier and stain resist will not prevent stains. Some acidic products may stain or "etch" the surface instantly depending on the level of acid in a product. The best prevention to staining is cleaning all spills in a timely manner. Some stain resist products are topical and will wear due to traffic and abuse. These products must be reapplied. It is the owners sole responsibility to schedule routine maintenance and repairs for all flooring.
3. A polished concrete surface is a dense surface but may scratch if a heavy or sharp object is pulled across the floor.
4. If an object is dropped on the floor the surface may chip, leavening behind a void in the concrete.



5. For staining, scratches, and chip-outs there are ways to help mask the problem, but there may not be means to remove the problem. Stains may be reground and polished, but if the stain penetrated deep into the concrete, it will remain after re-polishing. Depending on the size, scratches, and chip-outs may be filled but will still be noticeable after the completion.
6. It is essential that the floor be kept clean. Dirt and other contaminants on a polished concrete floor will act as sandpaper and will diminish the floor's appearance. Dirt and other contaminants will also alter the traction rating of polished flooring systems.
7. Polished concrete is not produced in a factory. It will **not** be completely uniform throughout the surface, along the edge, in corners or underneath objects. If you are looking for a completely uniform system, polished concrete may not be the right flooring choice to fit your needs. However, if you are looking for a unique flooring option that is beautiful, long lasting and relatively easy to maintain, polished concrete is the right choice for your flooring needs.

**\*Additional Requirements:**

- Uninterrupted continuous days are needed to complete the work. No other trades will have access to the installation area during this time. Price is subject to change for night, weekend, and overtime hours unless specified.
- Buyer must supply trash receptacles, and a place to discard empty 5 Gallon Buckets.
- This proposal assumes moisture levels acceptable for the installation of this system. (No more than 3 lbs per sq. inch or as recommended by the select manufacturer of products.) If questionable, the concrete surface must be inspected and quantitative vapor measurements taken prior to the arrival of Riverbed Concrete's installation crew.
- Temperature control must be maintained at or above 60 degrees F before and during installation.
- During and / or after completion, any damage to Riverbed Concrete's system, not caused by seller's employees, will result in additional charges for repairs. If the finished floors are not protected and damage results, additional charges for repair will be added as a change order to the contract.
- Substrate must be structurally sound, and in stable condition. Riverbed Concrete will not be responsible for sub grade shifting, cracking or defects which may occur during freeze and thaw or any other ground movements. This proposal is contingent upon the concrete slab(s) meeting minimum Building Codes for Structural Concrete. Deviations from code not disclosed in writing prior to installation will result in any warranties being immediately voided on their discovery.
- Work area for installation must be broom cleaned and free from all equipment, debris, building materials, etc. The buyer shall pay expenses of any delay or additional costs caused by the failure of the buyer to provide working conditions described herein.
- This contract excludes removal of all existing patching materials, leveling compounds, adhesives, and coatings, unless otherwise noted.
- Upon delivery to the job site, the buyer shall protect all materials from damage, theft, or abuse.
- Please ensure all parties involved review the product literature and information submitted by Riverbed Concrete before work begins
- No material will be ordered nor is manpower scheduled until a signed copy of the estimate, this contract, along with the deposit are returned to Riverbed Concrete offices.
- Upon a notice to proceed with proposal, up to three (3) custom samples will be created using the polishing system specified. The buyer will agree to pay for samples over and above the 3 included into the price at an additional fee per custom sample. One approved sample must be signed off with a signature by the owner or owner's representative before any work begins.



### **Conditions of Installation**

Riverbed Concrete polished concrete systems are hand crafted on site by trained applicators using a variety of techniques and artisan craftsmanship. They are not pre-manufactured flooring systems therefore every Riverbed Concrete installation is unique and will present its own set of installation variables. Similar in effect to natural stone products, the final outcome of these systems are designed to and may give an assortment of colors, swirls, mottling effects, blemishes, and cracks, natural to and desired when choosing these types of hand crafted systems. Riverbed Concrete dyes and acid stains create custom translucent color effects, and are not designed to, and will not hide surface discoloration, blemishes, impressions, cracks, markings or other construction variables. Riverbed Concrete surfaces are striking in appearance and add to other artistic features and accessories. The final installed product will use the same colors, finishes, materials, and application methods used in the approved mock up provided. Variables that occur during installation are due to each unique working environment. (i.e. lighting, temperature, airflow, humidity; and existing floor condition.). By entering into this agreement and choosing a Riverbed Concrete flooring system, the end user understands and is agreeing to accept the look and variables expected when choosing this type of system, and have taken the time to educate themselves on the artistic and unique impression that these systems portray. It is the end users' responsibility to determine the suitability of these systems for their particular application and their own use.

### **Contractual Obligations**

1. A change order contingency of 20%, added to the project total will be charged for any alteration requests made after the signing of this contract. This document and any written attachments constitute the entire agreement between the Parties. Rates for overtime caused by an agreed upon alteration of work schedule. Additional Fee: \$ 300.00 / day.
2. Riverbed Concrete Inc. takes all necessary precautions and measures to ensure and improve onsite conditions as they arise. All processes and procedures are variable, requiring onsite, immediate decisions. All processes and procedures are considered a creative, artistic expression. Amounts up to 20% of the estimate total may become applicable to cover added work without a written change order and invoiced separately from the estimate. Any and all added charges over the estimate total will abide, or be directed by, the current Riverbed Concrete Inc. rates and charges price list, unless otherwise agreed in writing. With the variables in decorative concrete flooring, the client is contracting for expertise in creative, problem solving solutions to onsite variability, as no two jobs are alike, and every project presents hidden challenges that can not be fully foreseen until work begins.
3. Floor maintenance is the sole responsibility of the second party. For everyday cleaning the use of a mild detergent soap is recommended. Common kitchen floor cleaners are suitable as well. Do not use wet swiffer type mops. As with all custom installations, it is recommended to test any cleaning product in a hidden area to ensure compatibility.
  - a.) In high traffic situations, resealing, buffing, or polishing the concrete may become necessary. This should be performed by Riverbed Concrete and will be invoiced separately.
  - b.) It is recommended that a polished concrete conditioner be applied during the cleaning routine per manufactures recommendations. L&M Construction Chemicals Inc: [www.LMCC.com](http://www.LMCC.com) FGS Concrete Conditioner.



# Riverbed Concrete Inc.

*elements in concrete design*

polished concrete flooring - stain and seal concrete flooring - precast concrete counters - concrete sinks - concrete tiles - concrete elements

- 4. A design fee of \$50.00 / hr. will be applied for requests of Riverbed Concrete Inc. to assist the homeowner, builder, carpenter, or similar in the layout, function, construction, and specific, overall or general design of a project.
- 5. A finance charge of 10% per month (120% per annum) will be charged on all overdue balances. All payments must be paid as per the terms stated above unless otherwise agreed upon by both parties in writing.
- 6. In consideration of the mutual promises set forth herein, Riverbed Concrete covenants and agrees that it shall perform services rendered in a timely, professional manner, providing quality results set to Riverbed Concrete standards. Riverbed Concrete is not liable for color inconsistencies, nor to be held responsible for differences in opinion of color tone and color modeling, or other disagreements and opinions of color or finish. All verbal agreements are void unless otherwise stated in this contract.

Any claim or controversy arising among or between the parties hereto and any claim or controversy arising out of or respecting any matter contained in this Agreement or any difference as to the interpretation of any of the provisions of this Agreement shall be settled by arbitration in the city of Boerne, Texas by Three (3) arbitrators under the then prevailing rules of the American Arbitration Association.

In any arbitration involving this Agreement, the arbitrators shall not make any award which will alter, change, cancel or rescind any provision of the Agreement, and their award shall be consistent with the provisions of this Agreement. Any such arbitration must be commenced in front of said arbitrators no later than thirty (30) days from the date such claim or controversy arose. The award of the arbitrators shall be final and binding.

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Printed Name)

Dated: \_\_\_\_\_, 20\_\_\_\_\_

# Flooring Comparison Chart

	COLORANTS			FINISHES	
	Acid Stain	SIM Stain	Dye	Topical Sealer	Diamond Polished
<b>What is it?</b>	Chemical stain to be used with topical sealer	Acrylic stain colorant to be used with topical sealer	Concrete flooring colorant to be used with either a topical sealer or diamond polished flooring	30% solids, clear acrylic sealer	Hardened / Densified concrete that is brought to a shine using diamond abrasives
<b>How does it work?</b>	Chemical reaction with hardened concrete which yields a color compound	Very small pigment which is absorbed into the concrete surface and bonded with acrylic	Ultra fine colorant which is completely absorbed into the concrete surface	Topical clear coating, which is used to protect and enhance the colored concrete surface	Mechanical polishing of the concrete surface creates a glossy shine. Flooring is sealed with a non topical sealer (protects from the inside out)
<b>Where to use?</b>	-Interior or Exterior (Green and Blue Interior only) -Residential or Commercial -New construction -Remodel	-Interior or Exterior -Residential or Commercial -New construction -Remodel	-Interior only -Residential or Commercial -New construction -Remodel	-Interior or Exterior -Residential or Commercial -New construction -Remodel	-Interior only -Residential or Commercial -New construction -Remodel
<b>Benefits</b>	Natural occurrence of color modeling. A perfect colorant for rusts and leather tones	Broad selection of color for the south Texas décor, often exhibiting dramatic color modeling and crazing	Our favorite colorant. Dyes provide more color control, and greater degree of color options	Richens and enhances the floor color. Provides a great deal of protection from permeable liquids	Extremely high traffic wear tolerance. Flooring exhibits a beautiful shine similar to that of polished stone
<b>Colors</b>	8 standard colors that range from tans and rusts, greens and blue-greens, and shades of black	A wide variety of subtle earth tones with 20 colors to choose from	A wide selection of mixable colors for almost unlimited options. Colors of note: tans-light browns, absolute black, bright-vivid	Clear sealer	Dyes are suggested, but other options are also available
<b>Durability</b>	N/A	N/A	N/A	Medium – High	Very High

## DYE (INTERIOR ONLY)



AZTEC GOLD



PHOENIX SUN



BURNT SUGAR



DESERT SAND



LEATHER



COCOA



NUTTY



SIENNA



TERRA COTTA



SUMATRA



RIVER



BLACK



BURGUNDY



MOSS



KELLY



BLACK 50%



## **Owner's Manual**

### ***Your Riverbed Diamond Polished Concrete flooring is now complete.***

You have chosen the premier in diamond polished, concrete flooring systems. The system includes mechanically grinding/polishing, combined with a special liquid floor hardener, sealer and densifier. Our polished concrete gives your floor an unequalled combination of good looks, low cost maintenance and durable long life. This Owner's Manual explains the floor treatment process that your floor has received and suggests a few low cost ways to maximize its benefits. The following suggestions are designed to help you keep your polished concrete floor looking its best and lasting its longest.

### ***The single most important thing you can do is, wash it.***

Your polished concrete floor will improve with proper care and age. Unlike most coatings, paints, waxed tiles or other sealers that you may have experienced in the past, you will find that with proper care your polished concrete floor will look better as it ages. When first resurfaced and sealed, our process initiated a complex chemical reaction that densified weak elements present within the concrete and produced a denser, stronger and more beautiful floor. This densification process takes place naturally over time, but can be accelerated simply by washing and maintaining your floor. It is recommended to wash your floor frequently and regularly with **Riverbed Concrete's General Cleaner** (a solution of zero to low pH soap) and water. You may also choose to clean your new floor with **Riverbed Concrete's Conditioner** (a polished concrete conditioner) from time to time. For more information on the use of a RbC's Conditioner, its potential benefits and where to purchase, please see the information below or call Riverbed Concrete. Cleaning the floor regularly during its early life is the single most important thing you can do to maximize the long-term benefits of your new Polished Concrete Floor.

As your newly polished floor continues to internally densify, rapidly at first, then gradually over time, your cleaning time will diminish and your floor will increase in both beauty and in resistance to contaminant penetration. This treated surface will not wash off, so please maintain it often and regularly.

### ***Waxes and other coatings are not recommended for your Polished Concrete Floor.***



The presence of waxes and coatings will impair the natural process of densification. In fact, coatings and waxes are now a waste of your money. They are not needed to maintain the beauty of your Polished Concrete Floor. Remember, the only thing you need to do to maintain your floor's beauty is wash it regularly with **RbC's General Cleaner**.

### ***Improvement with age: Your Polished Concrete Floor will continue to improve over time.***

Polished Concrete Flooring does not use any film-forming sealers or waxes. Its shine is a natural result of the professional polishing steps in the process. However, in order to maintain that shine and to extend the life of the finish, the concrete has been treated with a penetrating chemical hardener and densifier, which will become part of the concrete. It will not wear off. In contrast to sealers which look their best the first day, Polished Concrete Flooring will continue to "look its best" for years to come.

Chemical densification of your concrete occurs over time. After the Polished Concrete System has been applied to your floor, the chemical densification of your concrete floor by our treatment begins immediately and then continues to increase. Your floor is still somewhat susceptible to staining. A good maintenance program will ensure a healthy start, and long life, to your new floor.

### ***Protecting your floor from oil and food spills.***

Protect your new floor from accidental spills. Most spills on treated floors are easily prevented from penetrating deeply into the concrete and will be typically contained at the very surface by the chemical densifier. A facility maintenance program of regular cleaning eventually lightens and removes most stains. Spot removal may be necessary, but continued cleaning gradually decreases the future possibility of contaminant penetration and staining.

All oil and food spills should be cleaned up immediately. The potential for staining will increase the longer a contaminant remains in contact with the floor. Over time, however, your Polished Concrete Floor will build a permanent resistance to most contaminant penetration. If a stain does develop that needs to be removed immediately, you may call Riverbed Concrete to schedule a repair. You may also choose to DIY repair by using **Riverbed Concrete's Poultice Paste** (see information below). **RbC's Poultice Paste** can be purchased by calling Riverbed Concrete. When properly used, Poultice Paste will remove most any stubborn oil stains.

### ***Special Instructions for Food Store Managers:***

All acid based foods and food ingredients, especially vinegar (acetic acid) and vinegar-based dressings, must be flushed, neutralized and picked up immediately. In just a short time, exposure of these acid based products to the concrete surface may cause it to become stained, pitted or etched. Etching the concrete will dull the polished appearance of the floor in the area that has been exposed. To neutralize a spill, after mopping up the ingredient, scrub the affected area with **Riverbed Concrete's Acid Neutralizer** (a mild solution of an alkaline cleaner). If you have a problem with spills causing a discoloration or etching of your floor, contact Riverbed Concrete for assistance.

### ***Polished Concrete Floors are certified as "High Traction" by the National Floor Safety Institute.***

Treated Polished Concrete Floors are certified by the NFSI as "High Traction". This certification extends to polished concrete surfaces that have been densified and continues when maintained. Floor safety is the number one concern for floor owners across the United States. Your use of the proper cleaning procedures ensures that your company is following proper steps to provide floor safety to its employees and customers.

### ***How often should I clean my Polished Concrete Floor? Wash the floor frequently with soft pads or brushes.***

Our recommended maintenance program consists of frequent and thorough cleanings. Frequency of washings will vary, as it may be necessary daily, weekly, or less frequently depending on floor usage and age. Many building owners find that a mechanical walk-behind or ride-on scrubber is the most efficient and economical means of regularly cleaning their floor. Do not use aggressive abrasive pads or brushes. The use of black scrubbing pads or "nylo-grit" type brushes may dull the surface gloss. A white pad is recommended. Wet mops work well on small floors or places where a mechanical scrubber will not fit.

### ***Special treatment procedures for colored concrete.***

There are no special cleaning procedures necessary to clean Polished Concrete Floors that are integrally colored or have received a decorative color. However, in order to preserve the beauty of a color-stained floor for as long as possible, it is beneficial to adhere to a frequent cleaning schedule. Foot or wheel traffic on top of a dirty floor will, over time, slowly abrade and remove the surface, and therefore the color will begin to show wear patterns. Removing the dirt through regular and frequent washings will provide a long term, color stable finish.



## GENERAL WARRANTY

Riverbed Concrete Inc., does hereby guarantee and warrant all work performed by Riverbed Concrete Inc. on the above referenced project for a period of one (1) year from substantial completion of contracted work. This warranty provides that all materials and equipment furnished under the contract is of good quality and new. The work will be free from defects excluding what is inherent in the nature of the product or permitted in Riverbed Concrete Inc. allowable tolerance, and the work will conform to the requirements of the contract documents.

This warranty excludes failures caused by occurrences beyond Riverbed Concrete Inc's control including, but not limited to, acts of God or public enemy, acts of war, rebellion or sabotage: fires, floods, explosions, accidents: riots or other acts of workers, whether direct or indirect: or, any other causes whether or not of the same cause or kind as those specifically named above, which are not within the control of the party affected and which, by the exercise of reasonable diligence, said party is unable to prevent or provide against.

Riverbed Concrete Inc. does not warrant for negligent use of its installed/manufactured products. Strict adherence to Riverbed Concrete Inc. documents, contracts, agreements, instruction, care & maintenance, and all expressed information must be adhered to for compliance with warranty terms.

Riverbed Concrete Inc. general warranty is considered void if cleaning products outside of the Riverbed product line are used (unless under prior written approval).

Amendments to warranty:

Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
(Signature only required if amendments present)

# General Cleaner

Riverbed Concrete General Cleaner is an all purpose cleaner for polished concrete flooring, stain and seal concrete flooring, concrete counters/sinks/tiles, and other pre-cast concrete features. It's neutral formula contains low residue, which rinses clean and is specifically designed for use on decorative concrete surfaces.



## Instructions for Use:

**Preparation:** Sweep or vacuum to remove loose materials from surface.

**Equipment:** Apply w mop, autoscrubber, or rag.

**Storage and Handling:** Store in cool dry place. Do not alter or mix with other chemicals.

**Application:** Always test for suitability, dilution rates and desired results before overall application. Dilution: Normal clean-1 oz of cleaner/1 gal fresh water ; Deep clean-2oz of cleaner/1 gal fresh water.

**Application Instruction:** Apply with mop or autoscrubber. Mop up used cleaner or vacuum with autoscrubber. After deep clean rinse well with fresh water. Do not let puddles dry on the concrete surface. Buff with White pad to increase shine.

**Clean Up:** Clean tools and equipment w fresh water.

**Safety Info:** Contains Octyldimethylamine oxide, decyldimethylamine oxide. Causes eye and skin irritation. Harmful if swallowed. Avoid eye and skin contact. Wear protective equipment as necessary to avoid contact. Do not alter or use for other than specified. First Aid: Ingestion: do not induce vomiting. Get immediate medical assistance. Eye Contact: Rinse thoroughly for 15 min. Get medical assistance. Skin contact: Rinse thoroughly. Get medical attention if irritation persists. Inhalation: Remove to fresh air. Get medical attention as necessary. 24 Hour emergency: INFOTRAC, 800.535.5053. Complete product literature by Riverbed Concrete Inc. 830.981.2210. Refer to product data and MSDS for complete application and precautionary information.

# Conditioner

Riverbed Concrete Conditioner is a concrete cleaner containing a chemical densifier to aid in maintaining the gloss of polished concrete by reinforcing and rejuvenating the chemical densification structure.



## Instructions for Use:

**Preperation:** Sweep or vacuum to remove loose materials from surface.

**Equipment:** Apply w mop or autoscrubber.

**Storage and Handling:** Store in cool dry place. Do not alter or mix with othere chemicals. Do not freeze.

**Application:** Always test for suitability, dilution rates and desired results before overall application.

**Frequency:** Apply to high traffic areas 3 times/week. Apply to secondary traffic areas 1-2 times/week.

**Dilution:** 1-2oz. / 1 gallon of water.

**Application Instruction:** Apply with mop or autoscrubber. After deep clean rinse well with solution of Riverbed Concrete General Cleaner at 1 oz./ 1 gallon of water.

**Clean Up:** Clean tools and equipment w fresh water.

**Safety Info:** Causes eye and skin irritation. Harmful if swallowed. Avoid eye and skin contact. Wear protective equipment as necessary to avoid contact. Do not alter or use for other than specified. **First Aid:** Ingestion: do not induce vomiting. Get immediate medical assistance. Eye Contact: Rinse thoroughly for 15 min. Get medical assistance. Skin contact: Rinse thoroughly. Get medical attention if irritation persists. Inhalation: Avoid inhaling mist and use in ventelated areas. Remove to fresh air. Get medical attention as necessary. 24 Hour emergency: INFOTRAC, 800.535.5053. Complete product literature by Riverbed Concrete Inc. 830.981.2210. Refer to product data and MSDS for complete application and precautinary information.

# Acid Neutralizer

Riverbed Concrete Acid Neutralizer provides exceptional acid damage prevention to polished concrete surfaces for DIY application. Providing effective prevention from acidic liquids (wine, pickle/lemon/citric juices, battery acid, etc.) commonly subjected to concrete flooring during construction phases or during daily use.



## Instructions for Use:

Directions:

1. Shake well before using.
2. Clean/eliminate as much surface contamination as possible
3. Pour Acid Neutralizer on spill immediately, saturating completely.
4. Immediately absorb with cloth, sponge or similar, to completely remove all surface liquid.

**Caution:** Use of this product on some decorative stained concrete surfaces may reduce or remove colorant. Always test for suitability and desired results before overall application. Keep away from children. Use proper protection when using this product. **First Aid:** In case of eye or skin contact: Flush with water continuously for (15) minutes. **DO NOT MIX OR USE WITH CHLORINE BLEACH** to avoid irritating fumes. Seek medical attention in all cases of eye contact, ingestion, or if irritation persists. In case of emergency, call CHEMTREC at 1-800-424-9300. Complete product literature by Riverbed Concrete Inc. 830.981.2210. Refer to product data and MSDS for complete application and precautionary information.

# Pultice Paste

Riverbed Concrete Pultice Paste concrete stain remover provides exceptional oil and grease lifting from porous surfaces. Effective on oil and petroleum based stains (motor oil, transmission fluid, brake fluid, cooking oils, etc.) commonly found on concrete flooring during construction phases or during daily use.



## Instructions for Use:

Directions:

1. Shake well before using.
2. Clean/eliminate as much surface contamination as possible (Riverbed Concrete General Cleaner at full strength is recommended)
3. Pour Pultice Paste on stain covering completely.
4. Let dry completely.
5. Sweep away dried material.
- 6 Repeat as necessary.

For difficult stains scrub into surface, let dry and sweep away.

**Caution:** Use of this product on some decorative stained concrete surfaces may reduce or remove colorant. Keep away from children. Use proper protection when using this product. **First Aid:** In case of eye or skin contact: Flush with water continuously for (15) minutes. If swallowed, drink large amounts of water to dilute ingested product. **DO NOT** induce vomiting. Seek medical attention in all cases of eye contact, ingestion, or if irritation persists. In case of emergency, call CHEMTREC at 1-800-424-9300. Complete product literature by Riverbed Concrete Inc. 830.981.2210. Refer to product data and MSDS for complete application and precautionary information.