



**Dudick inc.**

Corporate Offices  
1818 Miller Parkway  
Streetsboro, OH 44241  
330-562-1970  
330-562-7638 FAX  
www.dudick.com

**SHOCK-CRETE SL/SF**

**Semi-Self Leveling or Seeded  
Water Dispersed Polyurethane  
Floor Topping, 1/16”-3/16”  
(1.6mm-4.8mm)**

**FEATURES**

- Thermal Shock Resistant
- Excellent Chemical Resistance
- Low Odor
- Fast Setting
- Low Temperature Cure
- USDA Compliant
- 100% Reactive
- Anti-Microbial Agents are available as an option
- Anti-Skid Version Available
- Coefficient of Thermal Expansion Similar to Concrete
- VOC Compliant

**RECOMMENDED APPLICATIONS**

- General Concrete Restoration
- Breweries and Beverage Plants
- Automotive Aisleways
- Food Processing Plants
- Meat Packaging Plants
- Loading Ramps
- Packing Plants
- Machine Shops
- Laboratories
- Wet Wells

**CHEMICAL RESISTANCE**

- Organic Acids
- Dilute Inorganic Acids
- Alkali Solutions
- Salts
- Oils
- Aliphatic Solvents

**TEMPERATURE LIMITS**

- 120°F to 200°F
- 100°F – Continuous Chemical Exposure
- 200°F – Occasional Steam Cleaning

**COLORS:** Red and Grey

Consult Dudick, Inc. for additional colors.

**PHYSICAL PROPERTIES**

Coefficient of Thermal Expansion ASTM C531	2.2 x 10 <sup>-5</sup>
Compressive Strength ASTM C579	6,800PSI
Modulus of Elasticity ASTM C579	2.2 x 10 <sup>11</sup> PSI
Tensile Strength ASTM C307	1,050 PSI
Flexural Strength ASTM C580	2,600 PSI
Taber Abrasion ASTM C4060	70 mg
Tensile Bond Strength ASTM C7234	Cohesive Failure of Concrete
Density	125lb/cu.ft

**SPECIFICATIONS**

**Shock-Crete SL** shall be 116”-3/16” thick urethane topcoat as manufactured by Dudick, Inc. and applied in accordance with the manufacturer’s recommended practices.

**Shock-Crete SF** shall be a 116”-3/16” thick seeded polyurethane floor topping using a 20-40 mesh silica sand or aluminum oxide encapsulated with specified Sealer.

**SEALERS**

For **improved** UV stability, abrasion, stain resistance and chemical resistance. A Sealer can be applied over **Shock Crete SL/SF**. Consult Dudick for best options.

Both products are manufactured by Dudick, Inc. and applied in accordance with the manufacturer’s recommendations.

**SHOCK-CRETE SL/SF SYSTEMS**

The Shock-Crete SL/SF systems can only be applied to concrete or a previous layer of Shock-Crete, Shock-Crete SL or Shock-Crete SF. It will not bond to epoxy or other polymer systems.

**THE SHOCK-CRETE SL SYSTEM**

**Shock-Crete SL:** An aggregate filled system that develops a cure strength approximately 2 times that of the concrete base to which it is applied. The monolithic topping exhibits excellent physical and mechanical strength and chemical resistance.

**THE SHOCK-CRETE SF SYSTEM**

**Bodycoat:** Same as for Shock-Crete SL.

**Broadcast:** Sand or aluminum oxide is used for anti-skid texture. Aluminum oxide provides additional chemical and abrasion resistance.

**\*SHOCK-CRETE SL/SF BODYCOAT PACKAGING**

- Component A 8.35 lbs.
- Component B 8 lbs.
- Aggregate 36 lbs.
- Color Pack Pre-measured Amount

*\*Pre-measured units – Do Not Breakdown*

**ESTIMATING QUANTITIES AND ORDER BILL OF MATERIAL**

APPROXIMATE SQUARE FEET PER UNIT	
<b>SHOCK-CRETE SL</b>	
Shock-Crete SL	40-45 ft. <sup>2</sup> @ 1/8"
Shock-Crete SL	30-35 ft. <sup>2</sup> @ 3/16"
<b>SHOCK-CRETE SF</b>	
Shock-Crete SL	40-45 ft. <sup>2</sup> @ 1/8"
20/40 Mesh Sand	¼ - ½ lbs.
Aluminum Oxide	½ - 1 lbs.
Sealer	See specified Sealer data sheets

\*\*Quantities shown are for estimating purposes only. Actual field usage may vary.

**SURFACE PREPARATION**

**Concrete:** Concrete must be prepared mechanically to remove surface laitance. Oils, grease or other contaminant must be removed prior to surface preparation. Concrete must free of curing compounds and form release agents. Surface texture should be similar to

60-80 grit sandpaper or the visual standard, CSP-3 from the International Concrete Repair Institute. The prepared surface should have a nominal tensile strength of 250 PSI per ASTM D-4541.

All concrete substrates must be checked for moisture prior to product application using the Plastic Sheet Test, ASTM D-4263.

Additional surface preparation will be required if a 60-80 grit texture is not achieved and the surface laitance not completely removed with the first mechanical preparation procedure.

**APPLICATION SPECIFICATIONS**

Temperature of concrete substrate must be between 41°F and 90°F.

Relative humidity must not exceed 90%.

Substrate temperature must be 5°F above the Dew Point.

Application of Shock-Crete SL/SF in direct sunlight may lead to blistering, pinholes, or wrinkling due to out-gassing of air in the concrete and high substrate temperatures. Shading or evening application may be required. Consult a Dudick representative.

POT LIFE AND CURE TIME			
Temperature	Pot Life	Working Time	Cure Time
50°F	20 min	20 min	12-16 hrs
70°F	15 min	10 min	6-8 hrs
90°F	8-9 min	7 min	3-4 hrs

Do not attempt to store mixed material. Residual material should be properly disposed of at the end of each work period.

**Recoat Time: Depending on temperature Shock-Crete SL/SF must be cured for 16-24 hours before coated. Material must be abraded prior to recoating with Shock-Crete SL if it has set longer than 48 hours.**

**INSTALLATION SPECIFICATIONS**

**MIXING EQUIPMENT**

**When deciding on mixing equipment, keep in mind that Shock-Crete SL has a 10 minute working time at 70°F.**



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**Semi-Self Leveling or Seeded  
Water Dispersed Polyurethane  
Floor Topping, 1/16"-3/16"  
(1.6mm-4.8mm)**

A 10-15 gallon rotating drum container is recommended. It is portable and easy to clean. The stationary mixing paddle provides both radial and axial action, scraping both the side and bottom of the container a mortar mixer can be used as long as it contains blades for uniform mixing.

### SHOCK-CRETE SL INSTALLATION

**Mixing Sequence:** Add Color Pack to Component A and thoroughly mixed to re-disperse any pigments or fillers that may have settled. Add the pre-measured Component A to the mixer followed by the addition of the pre-measured Component B and mix for one minute. Slowly add the aggregate and continue mixing until all of the aggregate has been totally wetted.

**DO NOT REDUCE AGGREGATE. MIX FULL UNITS.**

### APPLICATION

**Bodycoat:** Set the gauge rake to the desired thickness, then pour the mixed material and spread to the recommended thickness. After spreading the material roll with a spike roller to level and de-aerate. **Timing of batches is important so as to avoid cold joints in the floor.**

### SHOCK-CRETE SF INSTALLATION

Use the same mixing sequence for bodycoat application as for Shock-Crete SL and broadcast either 20-40 mesh sand or aluminum oxide into the wet topcoat to complete saturation and allow to cure overnight. Once cured, remove excess sand or aluminum oxide with a broom or leg vacuuming.

**Sealer:** See specified Sealer data sheets.

Shock-Crete SF must be cured for a minimum of 12 hours prior to application of Sealer.

### CLEANING

Use **S-10 Cleaning Solvent, MEK or Acetone** to clean tools and equipment.

### SHIPPING

Refer to Material Safety Data Sheets.

### STORAGE

**Warning:** All Dudick products classified by DOT with either white, yellow or red labels must not be mixed or stored together as an explosive reaction may occur.

Store all products in a cool, dry area away from open flames, sparks or other hazards.

When stored in their original, unopened containers at 50°F-75°F, **Shock-Crete SL/SF** components will have a six-month shelf life. Storage in direct sunlight or excessive heat will reduce working time and shelf life.

### SAFETY

**M.S.D.S: Material Safety Data Sheets must always be read before using products.** Shock - Crete SL/SF toppings are intended for application by experienced, professional personnel. Dudick, Inc. can supply supervision to help determine that the surface has been properly prepared, the ingredients correctly mixed, and the materials properly and safely applied. If **Shock-Crete SL/SF** toppings are to be applied by your own personnel or by a third party contractor, please be sure that they are aware of the following safety precautions:

- Fumes are flammable and heavier than air. Proper ventilation should be maintained to minimize breathing of concentrated fumes.
- Suitable respirators should be used during application.
- Safety glasses, gloves, and suitable protective clothing must be worn at all times during application.

- If contact with hardeners occurs, flush the skin with flowing water. **Shock-Crete SL/SF** liquid can be removed with **S-10 Cleaning Solvent, Acetone, MEK, or lacquer thinner.**
- Keep open flames and sparks away from the area where materials are being mixed and applied.
- If a rash occurs, remove the individual from the work area and seek a physician's care for dermatitis.
- In case of eye contact, flush with water for at least 15 minutes and consult a physician.
- If swallowed, do not induce vomiting; call a physician immediately.
- Exposure to resins and hardeners through direct skin contact and/or inhalation may cause severe dermatitis reactions in some people.

**NOTE:** Dudick, Inc. ("Dudick") warrants all goods of its manufacture to be as represented in its catalogs and that the manufacture of its products by its employees or sub-contractors shall be performed in a workmanlike manner. Dudick's sole obligation under this warranty shall be to replace any material which its examination shall disclose to be defective. Dudick makes no warranty concerning the suitability of its product for application to any surface, it being understood that the goods have been selected and the application ordered by the Purchaser. DUDICK, INC. MAKES NO WARRANTY, EXPRESS OR IMPLIED, THAT THE GOODS SHALL BE MERCHANTABLE OR THAT THE GOODS ARE FIT FOR ANY PARTICULAR PURPOSE. THE WARRANTY OF REPAIR OR REPLACEMENT SET FORTH HEREIN IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES ARISING BY LAW OR OTHERWISE; AND DUDICK INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS, DOWN TIME, DAMAGES TO PROPERTY OF THE PURCHASER OR OTHER PERSONS, OR DAMAGES FOR WHICH THE PURCHASER MAY BE LIABLE TO OTHER PERSONS, WHETHER OR NOT OCCASIONED BY DUDICK'S NEGLIGENCE. This warranty shall not be extended, altered or varied except by written instrument signed by Dudick and Purchaser.

12/07/18