

## Conductive Adhesive For Use with Summit Series Vinyl Tile

### Shaw 5100SD Specification

Shaw 5100SD Adhesive is a high quality acrylic emulsion that combines the performance of a strong, robust adhesive with permanent conductive properties to create an electrical ground plane beneath static control vinyl floor tiles. Shaw 5100SD is designed for installation of conductive and static dissipative StaticSmart Summit Series ESD and Summit Green ESD vinyl tile. This adhesive contains MicroSept™ protection against mold, mildew and fungus development. Shaw 5100SD contains no hazardous or carcinogenic ingredients as defined by OSHA, Federal, State or Local regulations such as California Prop 65, M-4277 meets all flammability requirements for a Class A Flame Spread Rating as per ASTM E-84.

AVAILABLE SIZES	
1 Gallon	Item # 6078
4 Gallon	Item # 6079
LABORATORY TESTS	RESULTS
Polymer type	Acrylic
Percent solids	50%
VOC's (Rule #1168 of California's SCAQMD)	(<5 g/l)
pH	8.0
Trowelability	Light
Density	1.02
Consistency	Viscous
Color	Black
Shelf life	1 year when stored in original packaging at 70° F (21°C)
Storage conditions	65°F to 95°F (18°C to 35°C)
Flash point (ASTM D56)	> 212 deg. F.
Protect from traffic	24 hours for light traffic, 72 hours for heavy traffic
* 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.	

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### ENVIRONMENTAL

California South Coast Air Quality Management District SCAQMD Rule 1168

California CHPS Section 01350

LEED (Version 3.0) Points Contribution	LEED Points
MR Credit 5, Regional Materials*	Up to 2 points
IEQ Credit 4.1, Low-emitting Materials -	
Adhesives & Sealants	1 point
IEQ Credit 4.3, Low-emitting Materials – Flooring Systems	1 point

### WARRANTY

This product is covered by a 1-year limited warranty. For more detailed information and limitations on this limited warranty, please contact Julie Industries at (978) 276-0820.

## Installation Instructions for Adhesive

**Note:** The following instructions should be reviewed prior to installation. Every effort has been made to provide accurate and reliable information in this guideline. This is only intended as a guide for our customer's use with our recommended tools and materials. Julie Industries can not accept any responsibility for loss or damage that may result from the use of this information, due to the possibility of variations of processing or working conditions and/or workmanship beyond our control. End user customers are advised to conduct their own tests for a particular application. We strongly recommend using a licensed and experienced flooring installer to ensure satisfactory results.

1. Read all installation instructions thoroughly before installation
2. Use the appropriately notched trowel (see "Approximate Product Coverage" section)
3. Spread adhesive evenly over the substrate, keeping the trowel at a 45° angle to the floor.
4. Porous substrates: Install the flooring into semi-wet adhesive, about 10 minutes after spreading. Only spread as much adhesive as you can install tile while still semi-wet. Working time should not exceed 45 minutes.
5. Non-porous substrates: Do not install flooring into wet adhesive on a non-porous substrate. Allow the adhesive to dry just until the surface becomes tacky with little transfer to finger when touched (around 20-30 minutes).

Drying speed will vary according to temperature and porosity of the substrate, temperature of the air and components, relative humidity, as well of the dryness of the floor and thickness of the adhesive application.

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### Installation Instructions ...continued from previous page

Note: Flash time\* and working times\*\* may vary based on temperature, humidity, substrate porosity, trowel size and job site conditions. (\*Flash time is the waiting time required before installing flooring. \*\*Working time is the window of time for the adhesive to accept flooring.)

- **IMPORTANT: Do not use Shaw 5100SD as a pressure sensitive adhesive. Proper transfer of adhesive is essential to maintain bonding and static control properties. Loss of adhesion can result if the flooring is not installed within the working time of the adhesive.**
- Roll the flooring with a 100 lbs. roller immediately and 1 hour after flooring is placed, ensuring complete contact with the adhesive.
- Protect from traffic: 24 hours for light traffic, 72 hours for heavy traffic.
- Note: ESD flooring must be grounded in each segregated area, or once every 1,000 square feet of area. For proper grounding, place ground strips into the wet adhesive and apply additional adhesive over it prior to laying flooring. Once in place, connect all grounds strips to the proper ground terminal.

For more detailed instructions refer to Julie Industries StaticSmart Vinyl Tile installation instructions.

#### **SURFACE PREPARATION**

- All substrates must be structurally sound, solid, stable, level, even, flat, smooth, and prepared in accordance with the latest version of ASTM F 710.
- Any substrate onto which flooring is to be installed should be inspected to assure that proper adhesive bonding will be achieved. Proper adhesion requires that the surface should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion.
- The installation site must be acclimated with HVAC in operation. The floor and room temperature, as well as flooring materials and adhesive, should be maintained at 65°- 85° F, and the humidity 60% or below for 48 hours prior to, during, and permanently after the installation.
- Do not use on chemically cleaned substrates.

#### **SUITABLE SUBSTRATES**

- APA approved wood underlayments and subflooring
- Sound and properly prepared concrete (above, on and below grade)

#### **MOISTURE REQUIREMENTS**

- Do not install when relative humidity of concrete slabs exceeds 80% (per latest version of ASTM F2170 In-Situ Relative Humidity Test).
- Substrate pH readings should be between 7.0 and 10.0

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### Installation Instructions ...continued from previous page

Application Characteristics over Porous Substrates		
CONDITION	FLASH*	WORKING TIME**
Wet to Semi-Wet	10 minutes	Up to 45 minutes

  

Application Characteristics over NON - Porous Substrates		
CONDITION	FLASH*	WORKING TIME**
Semi-Wet	30 minutes	Up to 45 minutes

\*Flash is the waiting time required before installing flooring

\*\*Working time is the window of time for the adhesive to accept flooring.

**Note:** Flash time and working times may vary based on temperature, humidity, substrate porosity, trowel size and job site conditions.

### APPROXIMATE PRODUCT COVERAGES

FLOORING TYPE	TYPICAL TROWEL	COVERAGE
ESD Tile	1/16" x 1/16" x 1/16" U Notch (1.6 x 1.6 x 1.6 mm)	150-180 sq. ft. per U.S. Gal. (3.9 - 4.4 m <sup>2</sup> /L)

\*Trowel dimensions are depth/width/space. Coverages shown are for estimating purposes only. Actual job site coverages may vary according to substrate conditions, type of trowel used and setting practices.

### CLEAN-UP

Clean tools with water while the adhesive is still fresh/wet. Clean tools with mineral spirits once dried. Use caution with mineral spirits, which may be harmful to some materials. A detergent cleaner containing phosphate can be used for removing dried adhesive on the tile surface. Phosphates are not as common in detergents any more, but might be found in kitchen, concrete and deck cleaners. Also a surfactant type cleaner that contains glycol ether, such as 409 Cleaner. Apply the cleaner to the spot and let it set for several minutes, then scrub with a clean cloth.

### LIMITATIONS

- Do not install over any substrates containing asbestos
- For interior installations only
- Do not apply over any active cutback adhesive
- Use only when the ambient temperature is between 65°F and 95°F (10°C and 32°C)