



DUDICK, INC.

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**STERI-SOFT FLAKE
 HIGH FOOT TRAFFIC,
 ULTRAVIOLET RESISTANT,
 DECORATIVE, URETHANE
 RESILIENT FLOORING
 SYSTEM, 1/8"**

GREEN BUILDING FEATURES

* Steri-Soft Flake contributes toward satisfying credit MR 5 and EQ 4.2 under LEED.

- 100% Resilient Flooring
- Low emitting material
- Contains 27% post consumer recycled product
- Processed and manufactured in Ohio

APPLICATION FEATURES

- Ergonomic
- Crack Bridging
- Good UV Stability
- Acoustic Noise Reduction
- Enhanced Slip Resistance
- Seamless Easy to Maintain Surface
- Anti-Microbial Agents are available as an option
- Unique Multi Colored Patterns
- Excellent Durability and Chemical Resistance
- Integral Cove Base (optional)



The LEED (Leadership in Energy and Environmental Design) Green Building Rating System is a nationally accepted benchmark for Design, Construction, and Operation of High Performance Green Buildings.

LEED and related logo is a trademark owned by the U.S. Green Building Council and is used by permission.

* Products are not reviewed or certified under the LEED Rating System. LEED credit requirements cover the performance of materials in aggregate, not the performance of individual products or brands. For more information on LEED, visit www.usgbc.org/leed.

TYPICAL APPLICATIONS

- Pharmaceutical & Research Facilities
- Clean Rooms
- Offices
- Medical Facilities
- Educational Facilities
- Lobbies
- Hallways
- Dry Laboratories
- Small Animal Vivariums
- Commercial/Institutional Facilities

CHEMICAL RESISTANCE

Please consult Dudick, Inc. for complete chemical resistance information.

COLORS

Available in standard color patterns.
 Consult Dudick, Inc. for complete information.

TYPICAL PHYSICAL PROPERTIES		
Tensile Strength	1250 PSI	ASTM D-412
Abrasion Resistance	.04 gm loss	ASTM D-4060 CS-17/1000 cycles
Hardness	85	ASTM D-2240 Shore A
Water Absorption	0.1 %	ASTM D-570
Impact Resistance	> 160 in. PSI	ASTM D-4226
Tensile Bond Strength	Cohesive Failure of Concrete	ASTM D-7234
Static Load Limit	0.002in./0.05mm	ASTM F-970 125 lb./57 kg. load
Residual Indentation	<1% thickness	ASTM F1914 140lb. /64kg. load
Noise Reduction Coefficient	0.05	ASTM C-423
With Optional Anti-Microbial additives: Fungus Resistance	No Growth	U.S. Mil Std. 810E

SPECIFICATIONS

STERI-SOFT FLAKE system shall be a 1/8 inch* medium traffic decorative floor that consists of high solids, moisture tolerant primer, urethane resilient bodycoat, and a UV stable topcoat.

*For thicker applications, consult a Dudick representative **STERI-SOFT FLAKE** is manufactured by Dudick, Inc. and applied in accordance with the manufacturer’s recommendations.

THE STERI-SOFT FLAKE SYSTEM

Steri-Soft Flake consists of a moisture tolerant primer, “trowelled / gauge raked” flexible urethane bodycoat and a highly UV stable topcoat. This total system provides a strongly bonded monolithic floor with excellent physical properties. **Steri-Soft Flake** is only intended for interior applications and consists of the following components.

Primer: The prepared concrete surface is primed with **Steri-Soft Primer 67LV** to provide the “wetting out” required for good bonding. Do not allow primer to puddle. *Allow the Steri-Soft Primer 67LV to cure a minimum of 24 hours before applying Steri-Soft Flake Bodycoat.*

Bodycoat: The seamless, resilient and decorative bodycoat utilizes flexible resin binders to provide a seamless floor that offers ergonomic comfort, acoustical noise reduction and crack bridging.

Broadcast Coat: The 10 mil thick Steri-Soft Flake Broadcast Coat receives colored vinyl flakes to provide an aesthetically appealing look

Grout Coat(s): The Steri-Soft Flake Grout Coat liquid is used to fill any porosity in the bodycoat to provide a smooth seamless surface. *More than one grout coat may be necessary to achieve desired finish texture.*

Sealers: Choice of fluoropolymer or urethan sealers. The high solids satin finish sealers provide exceptional UV stability with added abrasion resistance.

Cove: Cove base installation with this material is not recommended. Contact Dudick representative for cove base recommendation.

ESTIMATING QUANTITIES AND ORDER BILL OF MATERIAL

APPROXIMATE SQUARE FEET PER GALLON	
STERI-SOFT PRIMER 67LV	
Primer	150-200 ft ²
STERI-SOFT FLAKE	
Bodycoat*	12-13 ft ² / gallon @ 1/8”
Acrylic Flakes	1/8 lb. / sq. ft.
Broadcast Coat	120-160 ft ² @ 10-12 mils WFT
Grout Coat	100-150 ft ² @ 12-15 mils WFT
2 nd Grout Coat (Optional)	200-250 ft ² @6-8 mils WFT
Sealer 50	450-500 ft ² @ 3-4 mils WFT
Option: Sealer 30	250-300 ft ² @ 6 mils WFT

Coverage rates will ultimately be determined by applied thickness and the degree to which the body coat is compact during trowelling.

*For thicker applications, contact a Dudick representative.

Quantities shown are for estimating purposes only. Coverages will vary due to porosity of substrate and other environmental conditions.

All quantities are estimated and will be affected by job conditions and workmanship.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Concrete must be prepared mechanically to remove surface laitance. Oils, grease or other contaminant must be removed prior to surface preparation. Concrete must be 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 primer application using the Plastic Sheet Test per 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.

Mechanical preparation removes laitance, exposing honeycombs or voids beneath the surface which must be filled with **Scratch Coat 300**. (Refer to separate product bulletin)



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ENVIRONMENTAL CONDITIONS

Temperature of the concrete substrate must be between 60°F and 90°F.

Important! Product mixing and application must be performed in a controlled environment of 60% or less relative humidity and maintained for 12 hours after application.

PRIMING

STERI-SOFT PRIMER 67LV MIX RATIO (BY VOLUME)

Component A 79 fl.oz.
 Component B 49 fl.oz.

STERI-SOFT PRIMER 67LV POT LIFE

TEMPERATURE	PRIMER 67LV
50°F	90 min.
75°F	60 min.
90°F	30 min.

Concrete: Mix the pre-measured units of **Component A with Component B.** Prime all concrete surfaces to be coated with **Steri-Soft Primer 67LV** at 3-4 mils WFT. Do not allow the primer to puddle. Allow primer to cure a minimum 24 hours before applying **Steri-Soft Flake Bodycoat.**

Application of **Steri-Soft Primer 67LV** in direct sunlight may lead to blistering, pinholes, or wrinkling due to outgassing of air in the concrete and high substrate temperatures. Double priming, shading, or evening application may be required. Consult a Dudick representative.

STERI-SOFT FLAKE BODYCOAT MIX RATIO (BY VOLUME)

***For a unit combine the following: Do not split units**

Component A premeasured

Component B premeasured

STERI-SOFT FLAKE GROUT COAT MIX RATIO (BY VOLUME)

Component A Premeasured Unit
 Component B Premeasured Unit

SEALER 50 CLEAR SATIN FINISH MIX RATIO (BY VOLUME)

Component A Premeasured Unit
 Component B Premeasured Unit

STERI-SOFT FLAKE POT LIFE

STERI-SOFT FLAKE Bodycoat	
Temperature	Pot Life
60°F	60 min.
75°F	40 min.
90°F	30 min.

STERI-SOFT FLAKE RECOAT TIME

	MINIMUM	MAXIMUM
Body Coat	16 hr.	120 hr.
Grout	16 hr.	120 hr.

BODYCOAT

Before beginning application: Curing by-product vapors can slow cure. Assure that there is air movement, exhaust, and fresh make-up air, especially in floor-to-wall and wall-to-wall corners. This will assure that vapor laden air/environment will not impact curing. Assure that

application personnel are equipped with respirators fitted with approved organic vapor cartridges.

Do not use partial or opened containers. Once a container is opened, it must be used. Any leftover material must be disposed.

Pre-mix **Steri-Soft Flake Bodycoat Component A** resin and **Component B** hardener separately for 3 minutes until uniform. The **Bodycoat** is most easily blended using a stainless steel propeller, 5" diameter and ½" bore.

Combine pre-measured **Bodycoat Component A and Component B** and stir for approximately 2-3 minutes, thoroughly scrape the sides and bottom of the container and re-mix for another 30 seconds.

Pour mixed mortar directly onto the primed concrete. The mix should be spread over the floor with a Midwest CAM Gauge Rake @ 125 mils WFT. Immediately broadcast acrylic flakes and allow to cure for **18-24 hours @ 75°F minimum** before applying grout coat. *Urethane products are very sensitive to minimum re-coat times and temperatures.* Contact Dudick representative for more information.

BROADCAST COAT

Before beginning application: Curing by-product vapors can slow cure. Assure that there is air movement, exhaust, and fresh make-up air, especially in floor-to-wall and wall-to-wall corners.

Apply using notched squeegee and backroll to achieve 8-10 mils. Immediately broadcast acrylic flakes and allow to cure for **12-18 hours @ 75°F** before applying grout coat. *Urethane products are very sensitive to minimum re-coat times and temperatures.* Contact Dudick representative for more information.

GROUT COAT

Before beginning application: Curing by-product vapors can slow cure. Assure that there is air movement, exhaust, and fresh make-up air, especially in floor-to-wall and wall-to-wall corners. This will assure that vapor laden air/environment will not impact curing. Assure that application personnel are equipped with respirators fitted with approved organic vapor cartridges.

Do not use partial or opened containers. Once a container is opened, it must be used. Any leftover material must be disposed.

Pre-mix **Steri-Soft Flake Grout Coat Component A** resin and **Component B** hardener separately for 3 minutes until uniform. Combine pre-measured **Component A and**

Component B and stir for approximately 2-3 minutes. Thoroughly scrape sides and bottom of the container and remix for another 30 seconds. Apply **Grout Coat** using a flexible, flat trowel or squeegee forcing **Grout Coat** material into any voids, leaving very little material on the flat surface. Allow to cure before applying **Sealer Coat**. A light sand with 80 grit screen is suggested prior to applying the final **Sealer Coat**. Thoroughly vacuum to remove all dust and debris. Additional **Grout Coats** may be required.

Allow to cure **12-18 hours @ 75°F minimum** before applying second grout coat or sealer.

SEALER

Before beginning application: Curing by-product vapors can slow cure. Assure that there is air movement, exhaust, and fresh make-up air, especially in floor-to-wall and wall-to-wall corners. This will assure that vapor laden air/environment will not impact curing. Assure that application personnel are equipped with respirators fitted with approved organic vapor cartridges.

Pre-mix **Sealer 50 Component A** resin and **Component B** hardener separately for 3 minutes until uniform. Combine pre-measured **Component A and Component B and stir for approximately 2-3 minutes.** Thoroughly scrape sides and bottom of the container and re-mix for another 30 seconds.

Apply **Sealer 50** using a flat squeegee and back roll with a **high quality 3/16" nap roller.**

Apply at a spread rate of 450-500 ft.² per gallon.

NOTES

The pot life of **Steri-Soft Flake** system components will depend upon the temperature. To prevent material waste and avoid damage to equipment, do not mix more material than can be used according to the corresponding tables.

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

Application of **Steri-Soft Flake** in direct sunlight may lead to blistering, pinholes, or wrinkling due to outgassing of air in the concrete and high substrate temperatures.

Double priming, shading or evening application may be required. Consult a Dudick representative.



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CLEAN UP

Use **S-10 Cleaning Solvent** to clean tools and equipment. Acetone and MEK may also be used. **DO NOT USE LACQUER THINNER.**

SHIPPING

Refer to Material Safety Data Sheets.

STORAGE

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

All products should be stored in a cool, dry area, away from open flames, sparks, or other hazards.

When properly stored in their original, unopened containers at 50°F-75°F, the **Steri-Soft Primer 67LV & Steri-Soft Flake** components will have a three-month shelf life. Containers of Steri-Soft Basecoat and Grout Coat that have been opened must be discarded if not used. 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. The components of the **Steri-Soft Flake Systems** 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 **Steri-Soft Flake** is 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:

- Exposure to resins and hardeners through direct skin contact and/or inhalation may cause severe dermatitis reactions in some people. Cleanliness of the skin and clothing is critical and must be of paramount concern.

- 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, remove any clothing involved and flush the skin with flowing water. Discard the clothing. Do not attempt to wash and reuse it. The components of the **Steri-Soft Flake System** liquid can be removed with **S-10 Cleaning Solvent**, MEK, or Acetone.
- 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.

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.

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