



PHARMACEUTICAL SYSTEMS

CHEMICAL STORAGE • LABORATORIES • STERILIZATION • CLEAN ROOMS





CHEMICAL STORAGE

STORAGE

SIMFLOOR EPOXY SILOXANE

CHEMICALLY RESISTANT

Facility managers need a flooring solution that will resist damage from chemical rooms. **SIMFLOOR EPOXY SILOXANE** is a low VOC, low odor, chemical-resistant floor system that offers surface protection from a wide range of chemicals. UV resistance is another benefit and the recommended satin topcoat provides wear resistance and slip resistance. The system is easy to apply and easy to maintain.

SYSTEM ATTRIBUTES



ADHESION:
> 400 psi



COEFFICIENT OF FRICTION:
.50



COMPRESSIVE STRENGTH:
11,600 psi



ELONGATION:
5 - 10%



FLAMMABILITY:
Self-extinguishing on concrete



FLEXIBILITY 1/8" BEND MANDREL:
PASS



FLEXURAL STRENGTH:
12,800 psi



HARDNESS:
Shore D: 75



GLOSS:
88°



TABER ABRASION:
40 mg loss

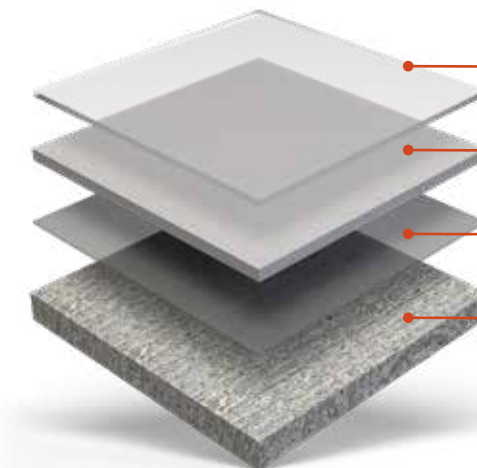


TENSILE STRENGTH:
9,600 psi



UV RESISTANT

SYSTEM BUILD



TOPCOAT:
971EPS HIGH SOLIDS EPOXY SILOXANE, SATIN, CLEAR

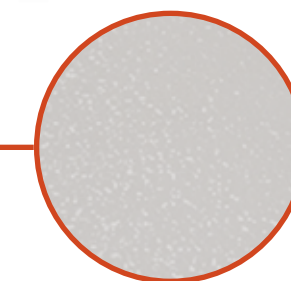
BASECOAT:
1100SL 100% SOLIDS EPOXY, HAZE GRAY

PRIMER:
1000HS OR ANY SIMIRON EPOXY PRIMER, CLEAR

PREPARED SUBSTRATE:
CSP 3+

COLOR SELECTIONS

To view all color selections refer to the **Simiron Product Color Guide**.



CLEAN ROOMS

SIMFLAKE SB DECORATIVE CHIP

SIMFLAKE SB is a decorative system consisting of a primer, basecoat, 1/4" vinyl chip broadcast, and durable polyaspartic topcoat. **Simiron Decorative Chip** is available in wide variety of blends and utilized in this system. Texture from the broadcast provides traction on floors wet from splashes and spills while also allowing for long-lasting appearance and easy clean-ups.

SYSTEM ATTRIBUTES



DURABLE:
30 mg loss



ADHESION:
> 400 psi



COEFFICIENT OF FRICTION:
> .55



COMPRESSIVE STRENGTH:
11,600 psi



ELONGATION:
5 - 10%



FLAMMABILITY:
Self-extinguishing on concrete



FLEXIBILITY 1/8" BEND MANDREL:
PASS



FLEXURAL STRENGTH:
12,800 psi



GLOSS:
92 - 95°



HARDNESS:
Shore D > 70, 86

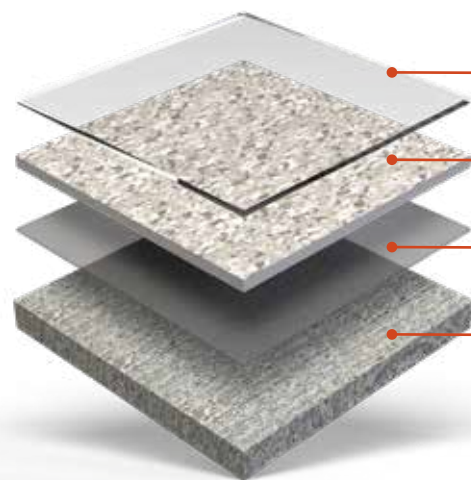


TENSILE STRENGTH:
> 9,600 psi



UV RESISTANT

SYSTEM BUILD



TOPCOAT:
POLYASPARTIC HS, GLOSS, CLEAR

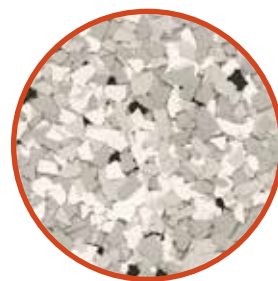
BASECOAT/BROADCAST:
1100SL 100% SOLIDS EPOXY, PIGMENTED & DECORATIVE CHIP

PRIMER:
1000HS OR ANY SIMIRON EPOXY PRIMER, CLEAR

PREPARED SUBSTRATE:
CSP 3+

COLOR SELECTIONS

To view all color selections refer to the **Simiron Product Color Guide**.



SIMFLAKE SB DECORATIVE CHIP

Bench chemists and technicians no longer need to work in a room that has an institutional feel. **SIMFLAKE SB** is a single-broadcast floor system that utilizes **Simiron Decorative Chip** to achieve easy to maintain, long-lasting results. There are a wide variety of chip blends to go with all cabinet and countertop combinations. The featured system has light texture and a gloss finish, from which it is easy to wipe up spills. The three-layer, 60 mil system thickness provides a sound base for free-standing equipment or heavy lab tables.

SYSTEM ATTRIBUTES



DURABLE:
30 mg loss



ADHESION:
> 400 psi



COEFFICIENT OF FRICTION:
> .55



COMPRESSIVE STRENGTH:
11,600 psi



ELONGATION:
5 - 10%



FLAMMABILITY:
Self-extinguishing on concrete



FLEXIBILITY 1/8" BEND MANDREL:
PASS



FLEXURAL STRENGTH:
12,800 psi



GLOSS:
92 - 95°



HARDNESS:
Shore D > 70, 86

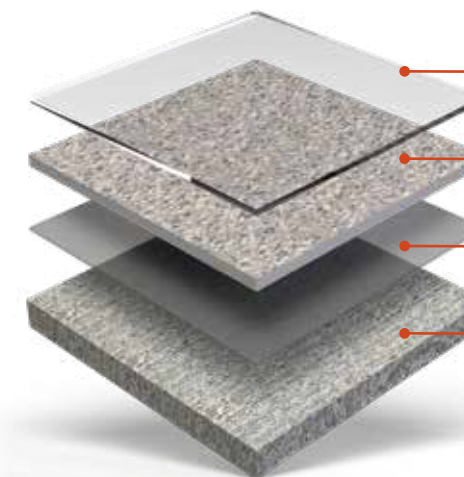


TENSILE STRENGTH:
> 9,600 psi



UV RESISTANT

SYSTEM BUILD



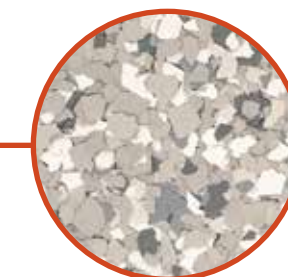
TOPCOAT:
POLYASPARTIC HS, GLOSS, CLEAR

BASECOAT/BROADCAST:
1100SL 100% SOLIDS EPOXY, PIGMENTED & DECORATIVE CHIP

PRIMER:
1000HS OR ANY SIMIRON EPOXY PRIMER, CLEAR

PREPARED SUBSTRATE:
CSP 3+

COLOR SELECTIONS














To view all color selections refer to the **Simiron Product Color Guide**.

STERILIZATION

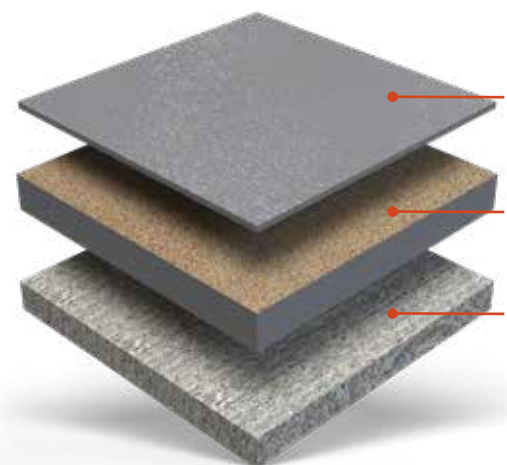
SIMCRETE SF URETHANE CEMENT

This heavy-duty system is resistant to thermal shock for heat exposure and has a slip-resistant texture suited for areas that become wet. **SIMCRETE SF** is a self-leveling urethane cement installed at 3/16" and broadcast to rejection with silica sand to achieve a full 1/4" system thickness. A polyaspartic is used to lock in the broadcast, which provides resistance to chemicals related to sterilization equipment and the process.

SYSTEM ATTRIBUTES

 BOND STRENGTH: 100% Concrete Failure	 COEFFICIENT OF FRICTION: > 0.63	 COMPRESSIVE STRENGTH: > 8,300 psi	 FLAMMABILITY: Self-extinguishing on concrete	 FLEXURAL STRENGTH: > 2,550 psi	 GLOSS: 92 - 95°
 IMPACT STRENGTH: > 160 lbs/inch	 RESISTANCE TO FUNGI GROWTH: PASS	 TABER ABRASION: 30 mg loss	 TENSILE STRENGTH: > 1,000 psi	 UV RESISTANT	

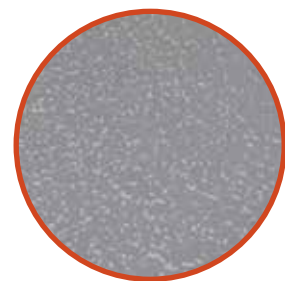
SYSTEM BUILD



- TOPCOAT:**
POLYASPARTIC HS, GLOSS, HAZE GRAY
- OVERLAY/BROADCAST:**
SIMCRETE SF, GRAY & SILICA SAND
- PREPARED SUBSTRATE:**
CSP 3+

COLOR SELECTIONS

To view all color selections refer to the [Simiron Product Color Guide](#).



CHEMICAL RESISTANCE CHART

SIMIRON SYSTEMS	SIMFLAKE SB	SIMFLAKE SB 1-DAY	SIMFLOOR HB-EPOXY	SIMFLOOR HWU	SIMFLOOR ESD	SIMFLOOR EPOXY SILOXANE	SHOP FLOOR
CHEMICAL	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
10% Acetic Acid	G	G	G	F	F	E	G
Vinegar	G	G	G	G	G	G	G
10% Citric Acid	G	G	G	G	G	G	G
10% Hydrochloric Acid	G	G	G	E	E	E	G
30% Hydrochloric Acid (muriatic)	G	G	G	E	E	E	G
10% Nitric Acid	NR	NR	G*	G	G	G	NR
50% Phosphoric Acid	F	F	F	G	G	G	F
10% Sulfuric Acid	F	F	G	F	F	G	F
37% Sulfuric Acid	F	F	F	F	F	G	F
70% Sulfuric Acid	F	F	F	F	F	G*	F
20% Ammonium Nitrate	E	E	E	E	E	E	E
20% Sodium Chloride	E	E	E	E	E	E	E
50% Sodium Hydroxide	G	G	E	E	E	E	G
Methyl Ethyl Ketone	E	E	G	E	E	E	E
Xylene	E	E	F	E	E	E	E
Ethylene Glycol	E	E	G	E	E	E	E
Isopropyl Alcohol	E	E	F	E	E	E	E
Mineral Spirits	F	F	E	E	E	E	F
Brake Fluid	E	E	F	G	G	G	E
Transmission Fluid	E	E	E	E	E	E	E
Motor Oil	E	E	E	E	E	E	E
50:1 Gas/Oil Mixture	E	E	E	E	E	E	E
E85 Gasoline	E	E	E	E	E	E	E
E95 Gasoline	E	E	E	E	E	E	E
Unleaded Gasoline	E	E	G	E	E	E	E
Skydrol	E	E	E	E	E	E	E
Betadine	E	E	G*	G*	G*	G*	E
Bleach	E	E	E	E	E	E	E
Urine	E	E	E	E	E	E	E
Coffee	E	E	E	E	E	E	E
Cola	E	E	E	E	E	E	E
Ketchup	E	E	G	F	F	E	E
Mustard	G*	G*	G	G	G	G*	G*
Red Wine	E	E	E	E	E	E	E

*Stain is only defect.

SIMIRON SYSTEMS	SIMCRETE SL	SIMCRETE SL FLAKE	SIMCRETE SL QUARTZ	SIMQUARTZ DB	SIMCRETE SL+TC	SIMFLOOR METALLIC
CHEMICAL	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
10% Acetic Acid	G	G	G	F	E	E
Vinegar	G	G	G	F	E	G
10% Citric Acid	G	G	G	E	E	G
10% Hydrochloric Acid	G	G	G	E	E	E
30% Hydrochloric Acid (muriatic)	G	G	G	E	E	E
10% Nitric Acid	NR	NR	NR	NR	G	G
50% Phosphoric Acid	F	F	F	NR	G	G
10% Sulfuric Acid	F	F	F	E	G	G
37% Sulfuric Acid	F	F	F	G	F	G
70% Sulfuric Acid	F	F	F	NR	NR	G*
20% Ammonium Nitrate	E	E	E	E	E	E
20% Sodium Chloride	E	E	E	E	E	E
50% Sodium Hydroxide	G	G	G	G	E	E
Methyl Ethyl Ketone	E	E	E	E	F	E
Xylene	E	E	E	E	E	E
Ethylene Glycol	E	E	E	E	E	E
Isopropyl Alcohol	E	E	E	E	E	E
Mineral Spirits	F	F	F	E	E	E
Brake Fluid	E	E	E	G	E	G
Transmission Fluid	E	E	E	E	E	E
Motor Oil	E	E	E	E	E	E
50:1 Gas/Oil Mixture	E	E	E	E	E	E
E85 Gasoline	E	E	E	E	E	E
E95 Gasoline	E	E	E	E	E	E
Unleaded Gasoline	E	E	E	E	E	E
Skydrol	E	E	E	E	E	E
Betadine	E	E	E	G*	E	G*
Bleach	E	E	E	E	E	E
Urine	E	E	E	E	E	E
Coffee	E	E	E	E	E	E
Cola	E	E	E	E	E	E
Ketchup	E	E	E	F	E	E
Mustard	G*	G*	G*	G	E	G*
Red Wine	E	E	E	E	E	E

*Stain is only defect.

KEY

E = Excellent

G = Good

F = Fair

NR = Not Recommend



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