

PHARMACEUTICAL SYSTEMS

CHEMICAL STORAGE • LABORATORIES • STERILIZATION • CLEAN ROOMS

SIMIRON™

INNOVATIVE PROTECTIVE COATINGS

CHEMICAL 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

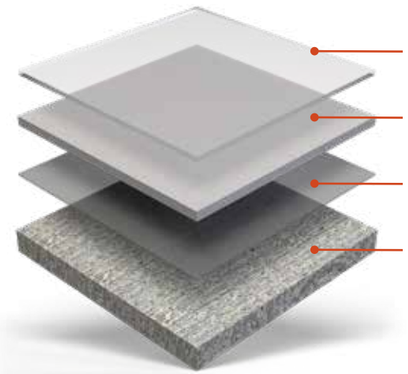
GLOSS:
88°

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:
SIMIRON EPOXY

PREPARED SUBSTRATE:
CSP 3+

COLOR SELECTIONS

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

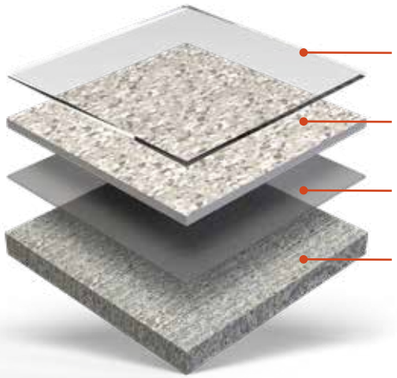
SIMFLAKE SB
DECORATIVE CHIP

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

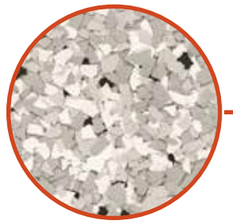
BASECOAT/BROADCAST:
1100SL 100% SOLIDS EPOXY, PIGMENTED & DECORATIVE CHIP

PRIMER:
SIMIRON EPOXY

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

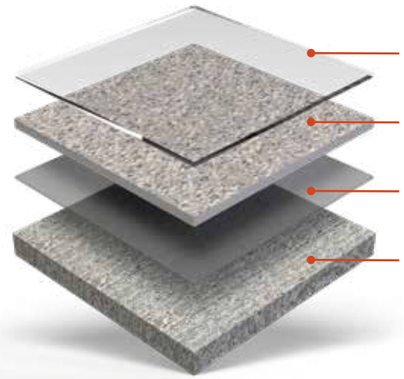
GLOSS:
92 - 95°

HARDNESS:
Shore D > 70, 86

TENSILE STRENGTH:
> 9.600 psi

UV RESISTANT

SYSTEM BUILD



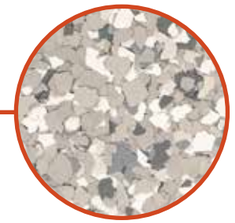
TOPCOAT:
POLYASPARTIC HS, GLOSS, CLEAR

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

PRIMER:
SIMIRON EPOXY

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

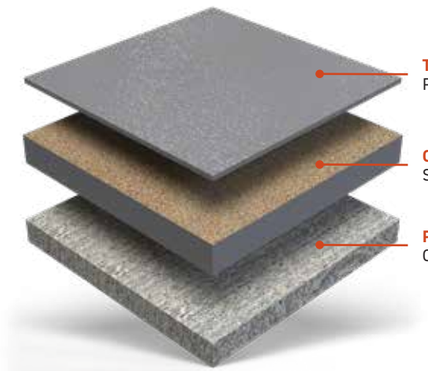
RESISTANCE TO FUNGI GROWTH:
PASS

TABER ABRASION:
30 mg loss

TENSILE STRENGTH:
> 1,000 psi

UV RESISTANT

SYSTEM BUILD



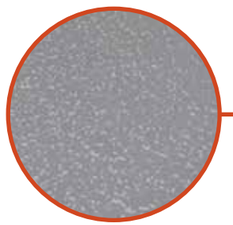
TOPCOAT:
POLYASPARTIC HS, GLOSS, HAZE GRAY

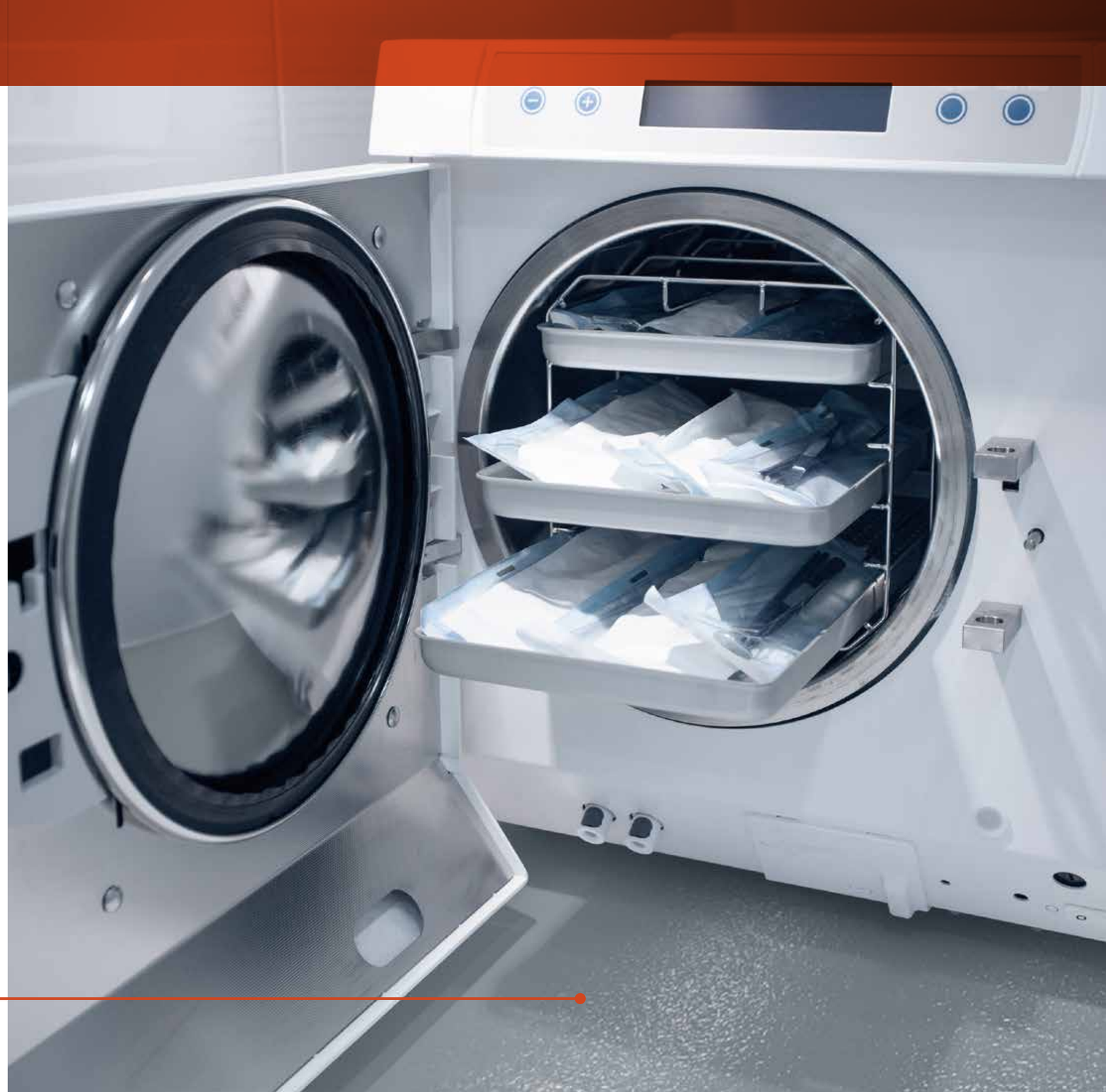
OVERLAY/BROADCAST:
SIMCRETE SF, GRAY & SILICA SAND

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

SIMIRON™

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MADE IN THE USA

