

FIRE/POLICE/RESCUE SYSTEMS

EQUIPMENT STORAGE • HOLDING CELLS • KITCHENS • VEHICLE BAYS

SIMIRON™

INNOVATIVE PROTECTIVE COATINGS

EQUIPMENT STORAGE

SIMFLAKE SB
DECORATIVE CHIP

First responders may drop equipment when it is pulled quickly or put away. **SIMFLAKE SB** is a decorative system utilizing a full broadcast of **Simiron Decorative Chip** that is available in multiple blends to achieve a durable surface with long-lasting results. The texture resulting from the broadcast is critical to minimize slip on floors when gear that may be wet is put away. This three-step system consists of a primer, basecoat/broadcast, and a polyaspartic topcoat.

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

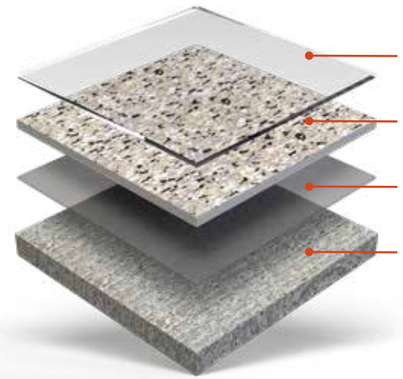
GLOSS:
92 - 95°

HARDNESS:
Shore D > 70, 86

TENSILE STRENGTH:
> 9.600 psi

UV RESISTANT

SYSTEM BUILD



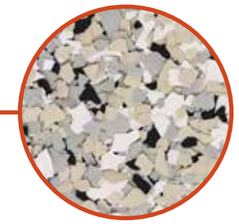
TOPCOAT:
POLYASPARTIC HS, GLOSS, CLEAR

BASECOAT:
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.**

HOLDING CELLS

SIMFLOOR EPOXY SILOXANE
CHEMICALLY RESISTANT

There is no telling what detained people may do to the floor and walls in a holding area. **SIMFLOOR EPOXY SILOXANE** is a chemical-resistant floor system that offers maximum surface protection found in environments of this nature. The recommended satin finish topcoat with low odor and VOC offers excellent abrasion resistance. Optional non-skid texture and a gloss version are also available.

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

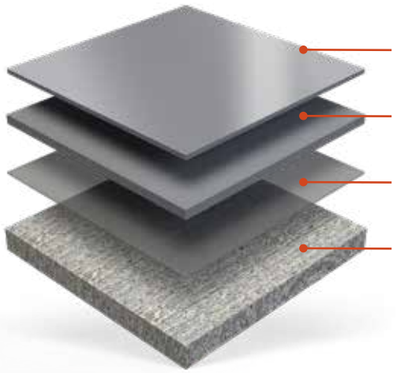
GLOSS:
88°

TABER ABRASION:
40 mg loss

TENSILE STRENGTH:
9,600 psi

UV RESISTANT

SYSTEM BUILD



TOPCOAT:
971EPS HIGH SOLIDS EPOXY SILOXANE, SATIN, HAZE-GRAY

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.**

SIMCRETE SL
URETHANE CEMENT

SIMCRETE SL is a self-leveling urethane cement installed at 1/8" and broadcast to rejection with silica sand to achieve a 3/16" heavy-duty system with a slip-resistant texture suited for kitchen applications. This extremely durable flooring system withstands thermal shock needed under ovens, oil splatter and the impact from dropped cooking equipment. A polyaspartic is used to lock in the broadcast, which provides UV stability and resistance to any chemicals used to clean kitchens.

SYSTEM ATTRIBUTES

BOND STRENGTH:
100% Concrete Failure

COEFFICIENT OF FRICTION:
> 0.63

COMPRESSIVE STRENGTH:
8,558 psi

FLAMMABILITY:
Self-extinguishing on concrete

FLEXURAL STRENGTH:
2,780 psi

GLOSS:
92 - 95

IMPACT STRENGTH:
> 160 lbs/inch

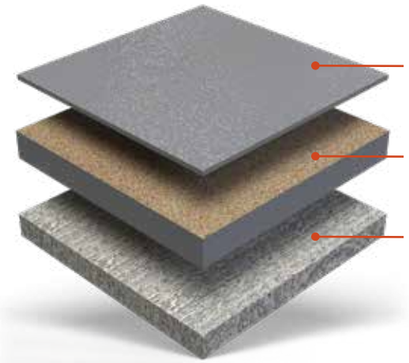
RESISTANCE TO FUNGI GROWTH:
PASS

TABER ABRASION:
30 mg loss

TENSILE STRENGTH:
1,120 psi

UV RESISTANT

SYSTEM BUILD

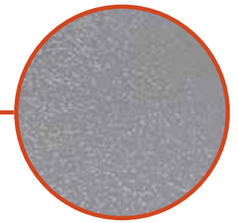


TOPCOAT:
POLYASPARTIC HS, GLOSS, HAZE GRAY

OVERLAY/BROADCAST:
SIMCRETE SL, GRAY & SILICA SAND

PREPARED SUBSTRATE:
CSP 3 - 5

COLOR SELECTIONS



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

VEHICLE BAYS

SIMFLAKE SB
DECORATIVE CHIP

The floors behind large glass doors have become a Fire Station showplace. **SIMFLAKE SB** is a 60 mil, decorative system that provides a sound base for heavy trucks and resists UV damage to exposure through the overhead doors. **Simiron Decorative Chip** is utilized in the system and is available in a wide variety of blends that will pair well with any facility color scheme. Optional satin and non-skid textures are available where workers and equipment are loaded and unloaded in areas that may be wet.

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

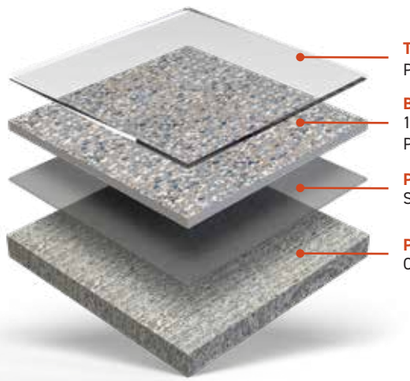
GLOSS:
92 - 95°

HARDNESS:
Shore D > 70, 86

TENSILE STRENGTH:
> 9.600 psi

UV RESISTANT

SYSTEM BUILD



TOPCOAT:
POLYASPARTIC HS, GLOSS, CLEAR

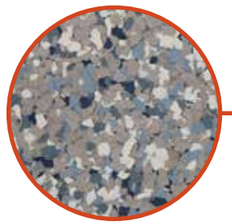
BASECOAT:
1100SL 100% SOLIDS EPOXY, PIGMENTED & DECORATIVE CHIP

PRIMER:
SIMIRON EPOXY

PREPARED SUBSTRATE:
CSP 3+

COLOR SELECTIONS

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



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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