

EDUCATION SYSTEMS

CAFETERIAS • CLASSROOMS • HALLWAYS • KITCHENS
LABORATORIES • LOCKER ROOMS

SIMIRON™
INNOVATIVE PROTECTIVE COATINGS

CAFETERIAS

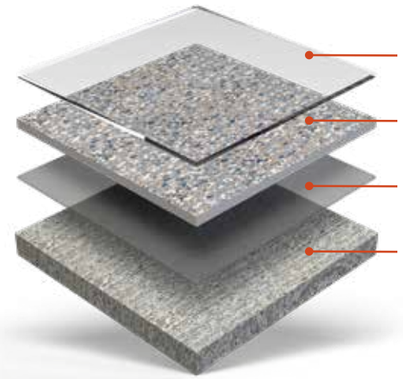
SIMFLAKE SB
DECORATIVE CHIP

Our flooring solution can accent this gathering area and seamlessly transition to hallways. **SIMFLAKE SB** is a decorative system available in a wide variety of **Simiron Decorative Chip** blends. It is easy to match school colors or design plans. Texture from the broadcast provides long-lasting appearance and traction for an area that has a high amount of student traffic. Optional satin and non-skid texture is recommended for this area, which is subject to food and beverage spillage.

SYSTEM ATTRIBUTES

ADHESION: > 400 psi	**COEFFICIENT OF FRICTION:** 0.60	**COMPRESSIVE STRENGTH:** 11,600 psi	**FLAMMABILITY:** Self-extinguishing on concrete	**FLEXIBILITY 1/8" BEND MANDREL:** PASS	**FLEXURAL STRENGTH:** 12,800 psi
HARDNESS: Pencil 4H	**GLOSS:** 70 - 80	**RESISTANCE:** 1x10 (6th power) - < 1x10 (9th power) ohms	**TABER ABRASION:** 12 mg loss	**TENSILE STRENGTH:** 9,600 psi	**UV RESISTANT**

SYSTEM BUILD



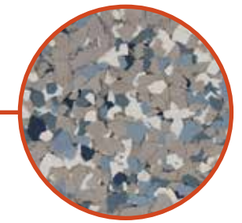
TOPCOAT:
POLYASPARTIC HS, GLOSS, CLEAR

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.**

CLASSROOMS

SIMFLOOR METALLIC
METALLIC PIGMENT

Are you ready to make a change from boring, industrial floor tiles? **SIMFLOOR METALLIC** floor system uses an exotic pigment that creates a beautiful three-dimensional appearance that gives the illusion of waves, swirls and ripples. The epoxy siloxane topcoat has a satin finish with minor texture that will hold up to constant student movement while still being easy to clean. A metallic floor creates a unique pearlescent and iridescent appearance.

SYSTEM ATTRIBUTES

ADHESION:
> 400 psi

COEFFICIENT OF FRICTION:
> .05

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:
88°

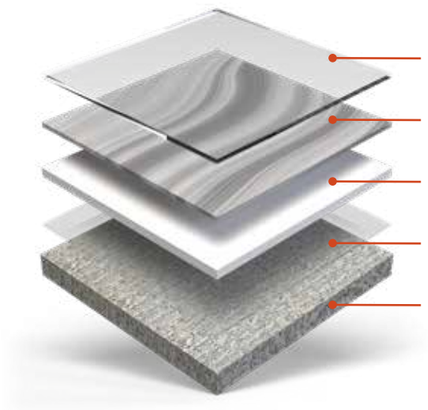
HARDNESS:
Shore D: > 75

TABER ABRASION:
40 mg loss

TENSILE STRENGTH:
9,600 psi

UV RESISTANT

SYSTEM BUILD



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

METALLIC ADDITIVE:
1100SL SLOW CURE W/METALLIC ADDITIVE

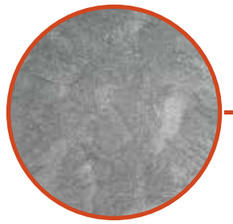
BASECOAT:
1100SL 100% SOLIDS EPOXY
W/U-TINT PIGMENT PACK

PRIMER:
SIMIRON EPOXY

PREPARED SUBSTRATE:
CSP 3+

COLOR SELECTIONS

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







HALLWAYS

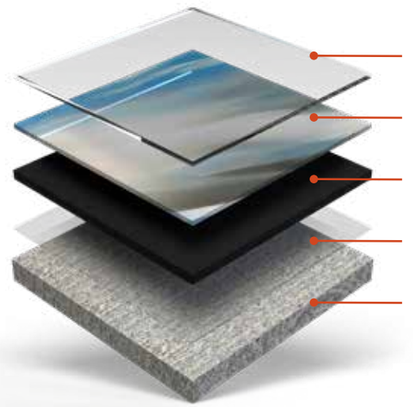
SIMFLOOR METALLIC
METALLIC PIGMENT

Are you looking for durable flooring that will match school colors or design plans? **SIMFLOOR METALLIC** is a decorative system, which has become a great accent as schools have evolved into grand spaces. Compliment lockers or walls with the many color choices of **Simiron Metallic Additive**. Subtle texture from the satin topcoat provides a long-lasting appearance and slip resistance for the high-traffic walkways that connect students to classrooms, the cafeteria and other school services.

SYSTEM ATTRIBUTES

ADHESION: > 400 psi	**COEFFICIENT OF FRICTION:** > .05	**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:** 88°	**HARDNESS:** Shore D: > 75	**TABER ABRASION:** 40 mg loss	**TENSILE STRENGTH:** 9,600 psi	**UV RESISTANT**

SYSTEM BUILD



TOPCOAT:
971EPS HIGH SOLIDS EPOXY SILOXANE, SATIN

METALLIC ADDITIVE:
1100SL SLOW CURE W/METALLIC ADDITIVE

BASECOAT:
1100SL 100% SOLIDS EPOXY
W/U-TINT PIGMENT PACK

PRIMER:
SIMIRON EPOXY

PREPARED SUBSTRATE:
CSP 3+

COLOR SELECTIONS



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

KITCHENS

SIMCRETE SF
URETHANE CEMENT

Cooks and kitchen workers need slip-resistant floors that are durable. **SIMCRETE SF** is a self-leveling urethane cement broadcast to rejection with silica sand to achieve a thickness of ¼". This heavy-duty system with slip-resistant texture is suited for kitchen applications. It will withstand damage from dropped cooking equipment, thermal shock from hot water cleaning and under ovens and and oil splatter. A polyaspartic is used to lock in the broadcast, which provides resistance to cleaning chemicals.

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

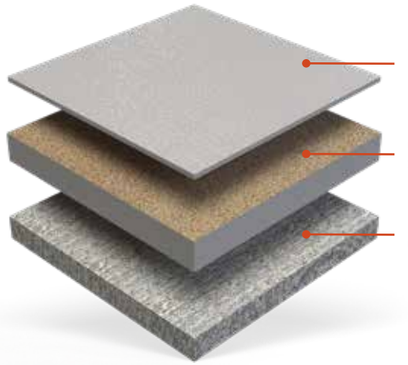
RESISTANCE TO FUNGI GROWTH:
PASS

TABER ABRASION:
30 mg loss

TENSILE STRENGTH:
> 1,000 psi

UV RESISTANT

SYSTEM BUILD



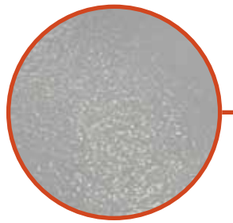
TOPCOAT:
POLYASPARTIC HS, GLOSS, LIGHT GRAY

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.**



SIMFLAKE SB
DECORATIVE CHIP

STEM study environments could be enhanced by a decorative element like a floor. **SIMFLAKE SB** is a single-broadcast floor system that utilizes **Simiron Decorative Chip** to achieve easy to maintain, long-lasting results. This three-layer system offers a wide variety of blends to go with all cabinet and countertop combinations. The featured system has light texture and a gloss finish, making it easy to wipe up spills. The 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

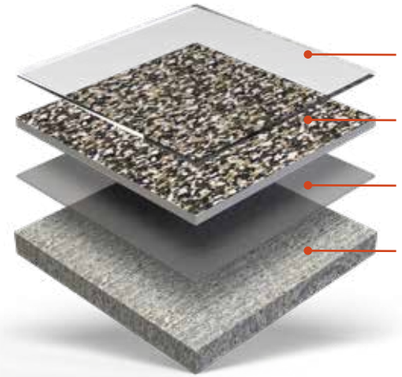
GLOSS:
92 - 95°

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.**

LOCKER ROOMS

SIMQUARTZ DB
DECORATIVE QUARTZ

Locker Rooms can become slippery and they need texture to minimize slip hazards. **SIMQUARTZ DB** is a double-broadcast floor system that utilizes colored quartz to achieve critical texture and a decorative look that is very durable for long-lasting results. This four-layer system consists of a primer, two quartz broadcast layers, and topcoat. We use a polyaspartic to lock in the quartz/topcoat, which provides color stability and resistance to chemicals typically used to clean bathrooms.

SYSTEM ATTRIBUTES

ADHESION:
> 400 psi

COEFFICIENT OF FRICTION:
0.65

ELONGATION:
> 5%

FLAMMABILITY:
Self-extinguishing on concrete

FLEXIBILITY 1/8" BEND MANDREL:
PASS

GLOSS:
92 - 95°

HARDNESS:
Shore D 70, 86

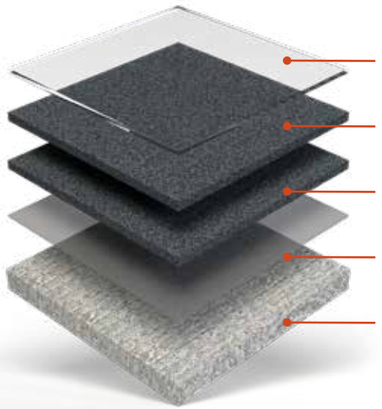
SLIP RESISTANT

TABER ABRASION:
30 mg loss

TENSILE STRENGTH:
4,000 psi

UV RESISTANT

SYSTEM BUILD



TOPCOAT:
POLYASPARTIC HS, GLOSS, CLEAR

2ND BASECOAT/BROADCAST:
1100SL 100% SOLIDS EPOXY, CLEAR
& DECORATIVE QUARTZ

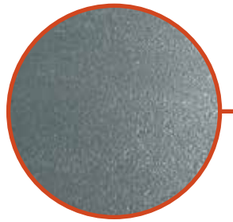
1ST BASECOAT/BROADCAST:
1100SL 100% SOLIDS EPOXY, PIGMENTED
& DECORATIVE QUARTZ

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

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