

PaliFlake 100

Decorative Epoxy Flake Floor



All Purpose Color Flake Flooring System

PaliFlake 100 (nominal 3/32") is a decorative and extremely durable concrete resurfacing system. It is used in environments that require an aesthetically pleasing high performance floor. PaliFlake 100 is used in corridors, labs, classrooms, lockers and lobbies. PaliFlake 100 provides a faux terrazzo appearance that cleans easily without the high cost of terrazzo. PaliFlake systems can be used as an overly sytem with Urethane and Epoxy mortar systems.

Finish Options

Standard Finish for PaliFlake is 2 two epoxy topcoats. Other options are available including Urethanes and Novolac.

Color Options

We offer our 12 standard colors.

Non-Slip Finish

Palma now uses ASTM D2047 and ANSI B101.1 for non-slip testing. Replacing outdated C1028

Sizing Options

PaliFlake 100 standard sized flakes are 1/8" or 1/4". 1/16" and 1/32" are available for a premium. Larger flakes although not typical are also available.

Quality Control

As both formulator and applicator we have total quality control over each application. All installers are factory trained employees of Palma Inc.

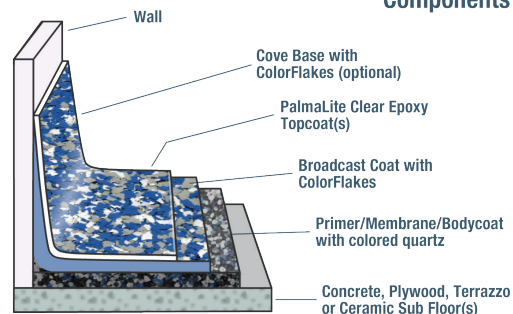
No Seams to Trap Dirt or Bacteria

The PalmaLite PaliFlake 100 system cleans easily. Its uniform, non-porous surface is free of seams, trowel marks, and depressions. PaliFlake 100 will not support bacterial or fungal growth.

Environmental Consdierations

PalmaLite PaliFlake 100 system meets most LEED and VOC requirements for your next "Green" project. Independent laboratory testing results are available.

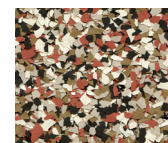
Floor Components



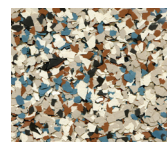
Standard Blends



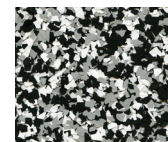
Agate



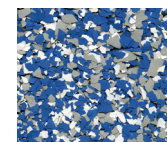
Burlwood



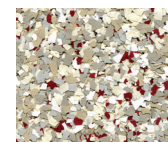
Coldwater Canyon



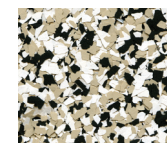
Domino



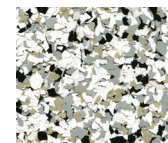
Ford



Matador



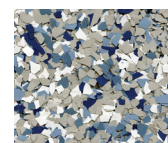
Pintail



Quicksilver



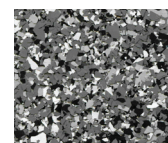
Seaport



Stonewash



Thistle



Wombat

Color chart is to be used as a guide only

PaliFlake 100

Decorative Epoxy Flake Floor

PRODUCT NAME

PalmaLite PaliFlake 100
Decorative Flake Resinous Flooring

FORMULATOR

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Website: www.palmainc.com

PRODUCT DESCRIPTION

a. **Basic Uses:** PalmaLite PaliFlake 100 is a combination trowel-broadcast self-leveling, decorative and functional flooring system applied at a nominal 100 mils (3/32") over properly prepared new, or existing, dry concrete. Outwearing concrete by 3 to 1, it is ideally used in commercial, industrial, and institutional facilities. The special properties of PalmaLite PaliFlake makes it a natural choice for areas where a bright decorative and functional floor is desired; including corridors, classrooms, labs, cells and lockers. PalmaLite PaliFlake also resists abrasion, physical impact, inorganic acids, organic acids, solvents, alkalies, fungus and bacteria. A dense nonporous consistency also provides exceptional abrasion resistance, water-proofing, low shrinkage and adhesive strength. PalmaLite PaliFlake is used to form an integral matching

cove base and can be applied as a wainscot and wall surface.
Note: PaliFlake is available at 200 mils where added thickness is required; over terrazzo, quarry and ceramic tile, plywood or irregular concrete.

Cove Base: Feather-edged at the top to a straight line at specified height. **PaliFlake** cove base can hide joints from ceramic and quarry tile as well as concrete block.

Wainscoting/Walls: Applied over new and/or prepared surfaces at 60 Mil (1/16").

Note: For applications over ceramic tile, quarry tile, terrazzo, plywood, and spalled concrete, use **PalmaLite PaliFlake 200** applied at a nominal 3/16".

b. **Composition:** PalmaLite PaliFlake 100 is composed of 100% solids, combination 1 part hardener 2 parts resin, graded colored quartz and ColorFlakes. Non-toxic, low odor, **PaliFlake 100** meets or exceeds VOC requirements.

c. **Finish:** Decorative, bright, variegated, easy to maintain, non-porous, slip-resistant, free of seams, trowel marks and depressions.

d. **Colors:** Custom color blends are available.

e. **Limitations:** Design concrete for local conditions to prevent osmosis, hydrostatic and vapor pressure in order to eliminate the possibility of sporadic blistering or delamination. Existing slab on grade concrete surfaces may be subject to moisture vapor transmission. Maintain substrate and air temperature between 60° and 85°F with proper ventilation, permanent lighting or air conditioning during application and curing.

f. **Applicable Standards:** Military, ASTM, ACI, ANSI.

PREPARATION & APPLICATION

1. General: New and Existing Surfaces:

a. Prepare substrate in compliance with Committee C.03 ASTM C-811 Standard Practice for Surface Preparation of Concrete for Application of Resinous Monolithic Surfaces and for Application of Resinous Monolithic Surfacing and formulator's written instructions for substrate indicated.

b. Surface must be structurally sound, free of contaminants and loose materials

c. Clean and fill joints and cracks wider than 1/16" with PalmaFlex joint filler.

d. Sawcut or Chisel concrete substrate at termination points, "keying in" to maintain minimum thickness of floor coating.

e. Tape at termination points and adjacent surfaces not to be coated with appropriate tape before each application is applied remove before dry.

f. Remove tape before each application dries.

Application: Nominal 100Mils (3/32") *

a. Apply cove base or other vertical surfaces when required.

b. Trowel primer-membrane-bodycoat onto surface then broadcast colored quartz aggregate into wet epoxy. Allow to dry

c. Sweep excess quartz

d. Apply cove base with Color Flakes other vertical surfaces when required.

e. Trowel broadcast coat onto surface then full broadcast Color Flakes aggregate into wet surface. Allow to dry.

f. Remove excess flakes, stone and sweep.

g. Topcoat(s): Standard slip-resistant finish: Apply 2 coats of PalmaLite Clear TopCoat other available.

h. Precautions: Provide adequate ventilation and protection against contact with skin and eyes. Wear protective gloves, goggles, respirator, and shoes. Prohibit smoking and the use of spark or flame devices at all mixing and application areas.

AVAILABILITY AND COST

a. Throughout the United States, Canada and abroad.

b. Cost varies depending on size, location and preparation.

WARRANTY

a. Standard: Palma Inc. renders a joint one-year formulator/appliator warranty against faulty workmanship or materials.

MAINTENANCE

a. Clean floor daily by sweeping, mopping, (clean mop) or mechanical scrubbing with soft nylon brush as needed. Use clean water and ph neutral detergent at all times. Contact Palma Inc. for detailed information.

TECHNICAL SERVICES

a. Fax or telephone **Palma Inc.** for assistance, literature, detailed specifications, preparation, application and maintenance instructions and samples.

*where extra thickness is required, trowel apply another broadcast coat.

Certified test data available. ASTM C722 Resinous Monolithic Surfacing 60 Mil (1.5 mm) in Thickness or Greater

TECHNICAL DATA:

Test	Specification	ASTM C-722 Requirement	PalmaLite Result
Compressive Strength	ASTM-C579	6,000 p.s.i.	13,500 p.s.i.
Tensile Strength	ASTM-C307	1,500 p.s.i.	1,790 p.s.i.
Flexural Modules of Elasticity	ASTM-C580	0.5x10 (6)	.7 x 10 (6)
Water Absorption	ASTM-C413	1.0% (max)	0.37% (NIL)
Thermal Coefficient of Expansion	ASTM-C531	60x10 (-6) in./in. Deg F.	ASTM-D696 1.9x10 (-5)F

SUPPLEMENTAL TESTS:

Test	Specification	Requirement	PalmaLite Result
Flexural Strength	ASTM-C580	3,600 p.s.i.	5,030 p.s.i.
Thermal Shock 5 cycles	ASTM-C884	No cracking, crazing, warping	No cracking, crazing, warping
Co-efficient of Friction	ASTM-D2047	0.5	Average .72
Co-efficient of Friction	ANSI-B101.1	0.5	.96 Dry .78 Wet
Taber Abrasion	ASTM-D1044	None	Average loss in weight 0.05 grams
Flammability	ASTM-D635	Self extinguishing	Self extinguishing
Shore "D" Hardness	ASTM-D2240	None	Average 83
Waterproofness	ASTM-4068	No evidence of moisture	No evidence of moisture
Bond Strength	ACI-503	175 psi (100% concrete failure)	535 psi (100% concrete failure)
Resistant to Impact	Mil-D3134	Not more than 1/16 (62.5 mils)	10 Mil
Indentation	Mil-D3134	Not more than 7%	Not more than 5%, Not less than 1%
Taber Wear	H-22-Wheel	None	Abrasive wear under 30
Pittsburgh Toxicity Test	RS 5-5	Non-toxic	Non-toxic
Heat Resistance		None	160°F Continuous, 200°F Non-continuous
Dielectric Properties		None	Insulation resistance and dielectric strength test in excess of 50,000 volts.

CHEMICALS AND SOLVENTS: For specific chemicals, solvents and high temperatures to be resisted, consult Palma Inc.

***Case Laboratories, Whippany, NJ....Also, all Warranty Maintenance and Technical Services heading needs to be the same

