

TECHNICAL DATA SHEET

POLYMER FLAKE™



DESCRIPTION

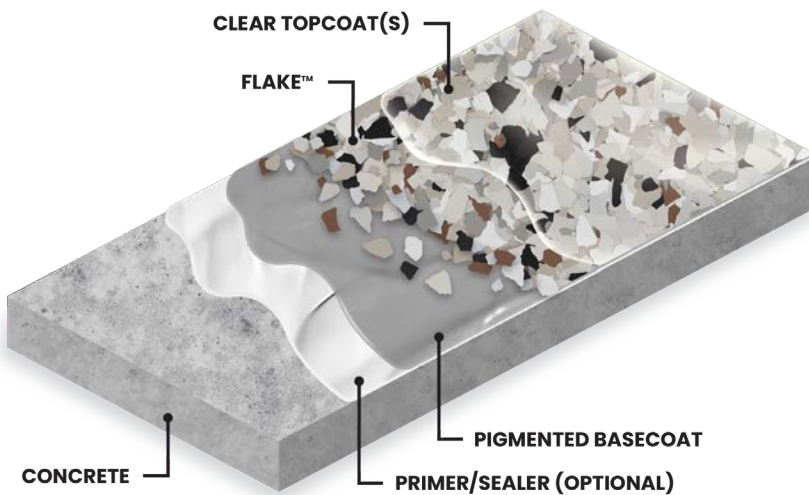
TORGINOL® POLYMER FLAKE™ are composed of water-based resin materials, organic minerals, additives, and various pigments. This unique product is integrally pigmented, brilliantly colored, random in shape, sized within a standardized range, and can be custom blended to achieve optimal appearance and texture qualities with a resinous flooring or wall-coating system.

POLYMER FLAKE™ are available in over 150 color-styles and six sizes that can be mixed and matched to custom design your floor and enhance any décor.



TYPICAL FLAKE SYSTEM

For best results, a clear topcoat is recommended to fully encapsulate the FLAKE™ and provide a durable wearing surface.



FEATURES & BENEFITS












- ✓ FLAKE™ flooring enhances everyday spaces
- ✓ Custom blends & color designs
- ✓ Sample matching expertise
- ✓ Over 150 color-styles in-stock
- ✓ Six unique sizes for optimum aesthetics
- ✓ FLAKE™ texture provides anti-slip qualities
- ✓ Water-based chemistry, zero VOC
- ✓ Formulated for optimal flexibility & strength
- ✓ UV tested lightfastness (see Color Palette ratings)
- ✓ Applies safely with speed & ease
- ✓ No minimum order quantities
- ✓ Lab-tested resin system compatibility
- ✓ Custom packaging & labeling options
- ✓ Cost effective performance flooring solution

DISCLAIMER: The information set forth in this Technical Data Sheet represents typical properties of the product described; the information and typical values are not specifications. Torginol, Inc. makes no representation or warranty concerning the products, expressed or implied, by this Technical Data Sheet.






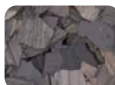








**ENHANCING
EVERYDAY
SPACES™**

Torginol, Inc.
4617 S Taylor Drive
Sheboygan, WI 53081 | USA
(920) 694-4800 | 1-800-558-7596
service@torginol.com | www.torginol.com








COLOR PALETTE

 Tan F1785 ○	 Cardboard F5302 ○	 Peach F1680 ○	 Moonshine F5201 ○	 Chiffon F9806 ○	 Rose F1760 ●	 Adobe Beige F1000 ○	 Olive F1600 ○	 Putty F5115 ○
 Camelback F5307 ○	 Caramel F9954 ○	 Latte F6602 ○	 Canyon Red F1080 ○	 Burnt Red F6609 ○	 Fireweed F5118 ○	 Khaki F9956 ○	 Jasper F1430 ○	 Sage F6613 ○
 Salmon F1770 ○	 Cappuccino F5303 ○	 Fawn F1320 ○	 Burgundy F1070 ●	 Red F2240 ●	 Berry F9995 ●	 Camo Green F6723 ○	 JD Green F5910 ○	 Slime F9990 ●
 Clay F6607 ○	 Autumn Brown F1040 ○	 Toast F9912 ○	 Lipstick Red F6721 ●	 Cherry Bomb F9920 ●	 Tomato F9978 ●	 Lime F5102 ○	 Crest Green F1120 ○	 Teal F6617 ●
 Patio Red F1640 ○	 Rustic Red F5935 ●	 Coppertone F9973 ○	 Terra Cotta F7551 ●	 Gladiola F6804 ●	 Orange F2160 ●	 Moss F9970	 Forest Green F1360 ●	 Favre F9916 ●
 Acorn F5117 ○	 Chocolate F5052 ○	 Mud F5304 ●	 Carrot Cake F9805 ●	 Squash F9979 ●	 Sorbet F5103 ●	 Hunter Green F1420 ●	 Gardenview F9991 ●	 Mint Green F1560 ○
 Brown F1060 ●	 Grounded F2518 ○	 Gravy F9982 ○	 Mustard F1570 ○	 Sunrise Yellow F6622 ●	 Primary Yellow F2200 ●	 Sonic F9984 ●	 Aquamarine F9952 ●	 Steel Blue F9968 ●
 Redwood F9996 ○	 Dark Brown F5501 ○	 Cocoa Brown F1100 ○	 Gold F1400 ○	 Cornmeal F5301 ○	 Cream F6614 ○	 Dusk Blue F1200 ○	 Moody Blue F9972 ●	 Graphite F1415 ○

MARBLE FLAKE

 Pumice F9303 ●	 Obsidian F9304 ●	 Garnet F9305 ●	 Schist F9307 ●	 Basalt F9309 ●	 Dolerite F9311 ●
 Carbon F9202 ●	 Feldspar F9203 ●	 Sable F9305 ●	 Spilite F9313 ●	 Metapelite F9317 ●	
 Arkose F9318 ●	 Soapstone F9320 ●	 Talus F9319 ●			

VARIEGATED FLAKE

 Oahu Brown F3000 ●	 Ewa Green F3020 ●	 Kona Beige F3040 ●
 Lanai Gray F3080 ●	 Maui Blue F3100 ●	 Pali Brown F3120 ●
 Aloha Rose F3130 ●		

● = Poor Lightfastness ○ = Moderate Lightfastness ○ = Good Lightfastness

Colors with poor lightfastness are not recommended for applications with direct sun exposure. Lightfastness ratings are based on accelerated UV testing in accordance with ASTM G155 (1,000 hour Xenon Arc Light Exposure).

DISCLAIMER: TORGINOL® Variegated and Marble Flake may vary slightly from lot-to-lot due to limitations in the manufacturing process. To ensure optimal color consistency when using multiple lots, intermix prior to use.



Peppermint
F9971 ○



Jetstream
F9962 ○



Baby Blue
F9988 ○



Seaspray
F5101 ○



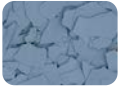
Powder Blue
F1720 ●



Heaven
F9905 ●



Sky Blue
F9964 ○



Stormy Blue
F6621 ●



Cobalt Blue
F9963 ○



Delray Blue
F1140 ●



Royal Blue
F9967 ●



Primary Blue
F6604 ●



True Blue
F1790 ●



Blue Ox
F9907 ●



Hypnotic
F9983 ●



Cosmo
F9992 ●



Dark Blue
F1130 ●



Navy
F9969 ○



Purple Gray
F2510 ○



Dark Gray
F9904 ○



Cyberspace
F5920 ●



Ebony
F5114 ○



Black Iron Oxide
F9902 ○



Black
F1050 ○



Navajo Beige
F9960 ○



Cement
F5252 ○



Taupe
F9957 ○



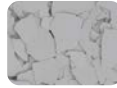
Dove Gray
F1160 ○



Stone
F9987 ○



Scone
F1780 ○



Sommelier
F9800 ○



Tabu
F5305 ○



Functional Gray
F9961 ○



Sticks & Stones
F5219 ○



Porpoise
F5306 ○



Dolphin
F9801 ●



Alpaca White
F9958 ○



Antique White
F9959 ○



Whisper Gray
F1800 ○



Rhino Gray
F2563 ○



Granite
F1410 ○



Neutral Gray
F6606 ○



Online
F9903 ○



Morning Fog
F9966 ○



Medium Gray
F1480 ○



Charcoal
F1090 ○



Space Gray
F5182 ○



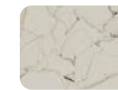
Battleship Gray
F9955 ●



Semi-Transparent White
F2250 ○



Eggshell
F9986 ○



Milkweed
F1520 ○



Ivory
F1425 ○



Sugar Cookie
F9909 ○



Buttermilk
F9910 ○



Sand Dune
F9994



Fossil
F9911



Potter
F9981



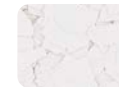
Buff
F6601 ○



Beige
F1045 ○



Wigwam
F5116 ○



White
F1820 ○



Lavender
F9965 ○



Amethyst
F1020 ●



Purple Haze
F9989 ●



African Violet
F5104 ●



Grape
F9993 ●



Plum
F9951 ●



Raisin
F9975 ○

FLUORESCENT



Blaze Orange*
F4000 ●



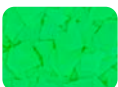
Chartreuse*
F4040 ●



Hot Pink*
F4080 ●



Rocket Red*
F4120 ●



Signal Green*
F4160 ●



Horizon Blue*
F4180 ●

PHOSPHORESCENT



Blue Glow
F9110 ●



Green Glow
F9120 ●

METALLIC



Silver Metallic
F3510 ●

● = Poor Lightfastness ○ = Moderate Lightfastness None = Good Lightfastness

Colors with poor lightfastness are not recommended for applications with direct sun exposure. Lightfastness ratings are based on accelerated UV testing in accordance with ASTM G155 (1,000 hour Xenon Arc Light Exposure).

PERFORMANCE SPECIFICATIONS

Color ($\Delta E \leq 0.5$)	Spectrophotometer (ASTM E1866)	Pass
Dry Film Thickness Gauge	Micrometer (ASTM D1005)	~5 mils
Shape	Visual Evaluation (ASTM D4086)	Random
Odor	Olfactory (ASTM D1296)	Odorless
Surface Texture	Leveling Draw-Down (ASTM D4062)	Smooth
Metamerism	Spectrophotometer (ASTM E1866)	Nonmetameric
Sheen	60° Gloss Meter (ASTM D523)	< 15 units
Dry Film Flexibility	Mandrel Bend Test (ASTM F137)	Pass
Opacity > 98%	Visual Evaluation (ASTM D6762)	Pass
Size Distribution	Normal Sieve Analysis (ASTM C136)	Pass

COATING SYSTEM COMPATIBILITY

Lab-tested resin system compatibility (Pass/Fail)

Epoxies	Pass
Methyl Methacrylates (MMA)	Pass
Polyaspartics	Pass
Polyureas	Pass
Polyurethanes	Pass

Compatible with 100% Solids, Solvent-based & Waterborne Systems

DISCLAIMER: Unknown resin compatibility testing recommended prior to use.

PACKAGING

	Net Weight	Gross Weight
Unit Packaging <i>Poly-lined Corrugated Cartons</i>	40 LB (18.14 KG)	44 LB (20 KG)
Full Pallets <i>48 Cartons (4 Layers x 12 Cartons Per)</i>	1,920 LB (870.12 KG)	2,104 LB (954.4 KG)
Full Truckload <i>20 Pallets (960 Cartons)</i>	38,400 LB (17,417 KG)	42,080 LB (19,087.2 KG)

FREIGHT SHIPPING CLASSIFICATION

Domestic NMFC Classification Code:	156150, Class 55
International Harmonized Tariff Code:	3906.90.50

COVERAGE RATE GUIDELINES Square Feet Per Pound

FLAKE Sizes	Full SF/LB	Heavy SF/LB	Light SF/LB
Original (1")	9-12	25-50	50-200
1/2"	7-9	25-50	50-200
1/4" & 1/8"	5-7	25-50	50-200
1/16" & 1/32", HYBRID	3-5	25-50	50-200

Coverage rate guidelines are approximations and representative in nature. Exact coverage rates will vary based on application techniques, system specifications and customer preferences.

STORAGE

FLAKE™ should be stored in an air tight poly-bag in a dry environment at room temperature to avoid moisture, humidity, and product damage.



PRODUCT LIMITATIONS

- ✓ FLAKE™ are random in shape and size; due to inherent product characteristics, a small amount of finer particles will be present within each box.
- ✓ Most FLAKE™ colors are formulated using lightfast pigments for good UV stability. Some colors may have moderate or poor UV stability due to pigment technology limitations. Please refer to FLAKE™ Color Palette for lightfastness ratings by color.
- ✓ FLAKE™ colors with good lightfastness ratings may be suitable in exterior applications. Coating manufacturer system specifications for UV stability and environmental durability will determine exterior application suitability.
- ✓ FLAKE™ does not protect against efflorescence. For more information, please consult coating system manufacturer specifications for vapor barrier protection with exterior applications.

SIZE PROFILES FB-513 Coyote



Original (1")



1/2"



1/4"



1/8"



1/16"



1/32"



Full Coverage



Heavy Coverage



Light Coverage

**ENHANCING
EVERYDAY
SPACES™**