

# TECHNICAL DATA SHEET

## POLYMER FLAKE™



### DESCRIPTION

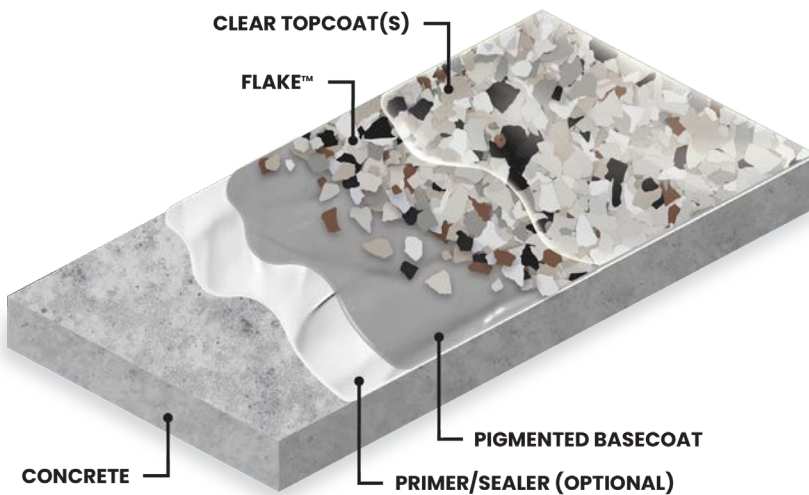
TORGINOL® POLYMER FLAKE™ are composed of water-based resin materials, organic minerals, additives, and various pigments. This unique product is integrally pigmented, brilliantly colored, random in shape, sized within a standardized range, and can be custom blended to achieve optimal appearance and texture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














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# 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 ●

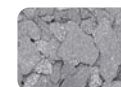
## PHOSPHORESCENT



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

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

## COATING SYSTEM COMPATIBILITY

Lab-tested resin system compatibility (Pass/Fail)

<b>Epoxies</b>	Pass
<b>Methyl Methacrylates (MMA)</b>	Pass
<b>Polyaspartics</b>	Pass
<b>Polyureas</b>	Pass
<b>Polyurethanes</b>	Pass

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

**DISCLAIMER:** Unknown resin compatibility testing recommended prior to use.

## PACKAGING

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

## FREIGHT SHIPPING CLASSIFICATION

<b>Domestic NMFC Classification Code:</b>	156150, Class 55
<b>International Harmonized Tariff Code:</b>	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

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