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## Product Data Sheet



# Polymer ColorFlakes™

## Decorative Polymer Color Chips/Flakes

**For use in Seamless, Resin-based Flooring Systems**

For more information, please visit our website at: [www.torginol.com](http://www.torginol.com)

### DESCRIPTION

**Product Name:**

Decorative Vinyl Color Chips/Flakes  
 Trade Name: *ColorFlakes™*

**Manufacturer:**

Torginol, Inc.  
 4617 South Taylor Drive  
 Sheboygan, WI 53081 USA  
 (800) 558-7596 toll-free  
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**Torginol ColorFlakes™**, also known as color **chips, flake** or **fleck** are composed of water-based resin materials, inorganic minerals, additives and various pigments. This unique product is integrally pigmented, brilliantly colored, random in shape, sized within a standardized range and custom blended with infinite options to achieve optimal appearance and texture qualities with a resin-based flooring or wall-coating system.

**ColorFlakes™ Advantages:**

- Custom design to match any décor
- Over 150 color-styles "in-stock"
- Non-flammable
- Water-based chemistry
- Optimal flexibility & strength
- Colorfast, UV stable pigments
- Forgiving application
- Fast turnaround times
- Custom color-matching available
- Six standard sizing options
- Infinite custom-blending options
- Custom blend-matching expertise
- Lab tested resin compatibility
- Suitable in many environments
- Custom packaging & label options
- No minimum order quantities
- Diligent quality control program
- Hide sub-surface imperfections

### CHARACTERISTICS

**Color:**

*Spectrophotometer ASTM E1866*  
 $\Delta E \leq 1.0$  Pass

**Dry Film Thickness:**

*Micrometer ASTM D1005*  
 Mils Dry 4 - 5 mils

**Shape:**

*Visual Evaluation*  
 Random Pass

**Odor:**

*Olfactory Evaluation ASTM D1296*  
 Odorless Pass

**Surface Texture:**

*Visual Evaluation*  
 Smooth Pass

**Metamerism:**

*Visual Evaluation ASTM D4086*  
 Nonmetameric Pass

**Sheen:**

*60° Gloss Meter ASTM D523*  
 <15 units Pass

**Dry Film Flexibility:**

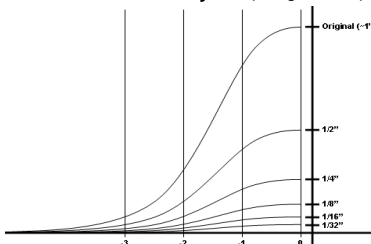
*Mandrel Bend Test ASTM F137\**  
 Interior Angle  $\leq 110^\circ$  Pass

**Hiding Power:**

*Visual Evaluation ASTM D6762*  
 Opacity > 98% Pass  
 (except color C2250)

**Size Distribution:**

*Normal Sieve Analysis (100g / 90sec)*



\*ASTM procedure modified to accommodate the unique characteristics of *ColorFlakes™* material.

### SIZING & BLENDING

**Sizing Options:**



**Original (~1")**



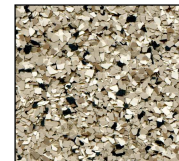
**1/2"**



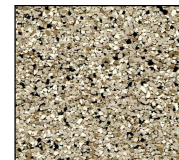
**1/4"**



**1/8"**



**1/16"**



**1/32"**

**Custom Blending:**

Use *ColorFlakes™* to coordinate your floors and walls with any décor. Our extensive line of ColorFlakes gives you the ability to custom design blends to match any color-scheme. Either choose from one of our signature blend designs or creatively mix and match colors to develop a unique color array that best fits your project. Call 1-800-558-7596 for more information and to request samples...



# Polymer ColorFlakes™

Decorative Polymer Color Chips/Flakes



## COLOR INDEX

(Sorted by Item Number)

### Standard Colors

C1000 (Adobe Beige)	C7551 (Terra Cotta)
C1020 (Amethyst)	C9800 (Sommelier)
C1040 (Autumn Brown)	C9801 (Dolphin)
C1045 (Beige)	C9805 (Carrot Cake)
C1050 (Black)	C9806 (Flesh)
C1055 (Brick Red)	C9902 (Black Iron Oxide)
C1060 (Brown)	C9903 (Online)
C1070 (Burgundy)	C9904 (Dark Grey)
C1080 (Canyon Red)	C9905 (Heaven)
C1090 (Charcoal)	C9907 (Blue Ox)
C1100 (Cocoa Brown)	C9908 (Canary Yellow)
C1120 (Crest Green)	C9909 (Sugar Cookie)
C1130 (Dark Blue)	C9910 (Buttermilk)
C1140 (Delray Blue)	C9911 (Fossil)
C1160 (Dove Gray)	C9912 (Toast)
C1200 (Dusk Blue)	C9916 (Favre)
C1320 (Fawn)	C9920 (Cherry Bomb)
C1360 (Forest Green)	C9951 (Plum)
C1400 (Gold)	C9952 (Aquamarine)
C1410 (Granite)	C9953 (Honeydew)
C1415 (Graphite)	C9954 (Caramel)
C1420 (Hunter Green)	C9955 (Battleship Gray)
C1425 (Ivory)	C9956 (Khaki)
C1430 (Jasper)	C9957 (Taupe)
C1480 (Medium Gray)	C9958 (Alpaca White)
C1520 (Milkweed)	C9959 (Antique White)
C1560 (Mint Green)	C9960 (Navajo Beige)
C1570 (Mustard)	C9961 (Functional Gray)
C1600 (Olive)	C9962 (Jetstream)
C1640 (Patio Red)	C9963 (Cobalt Blue)
C1680 (Peach)	C9964 (Sky Blue)
C1720 (Powder Blue)	C9965 (Lavender)
C1760 (Rose)	C9966 (Morning Fog)
C1770 (Salmon)	C9967 (Royal Blue)
C1780 (Scone)	C9968 (Steel Blue)
C1785 (Tan)	C9969 (Navy)
C1790 (True Blue)	C9970 (Moss)
C1800 (Whisper Gray)	C9971 (Peppermint)
C1820 (White)	C9972 (Moody Blue)
C2160 (Orange)	C9973 (Coppertone)
C2200 (Primary Yellow)	C9974 (Brilliant Blue)
C2240 (Red)	C9975 (Raisin)
C2250 (Semi-Transparent White)	C9977 (Daiquiri)
C5051 (Afterglow)	C9978 (Tomato)
C5052 (Chocolate)	C9979 (Squash)
C5101 (Seaspray)	C9981 (Potter)
C5102 (Lime)	C9982 (Gravy)
C5103 (Sorbet)	C9983 (Hypnotic)
C5104 (African Violet)	C9984 (Sonic)
C5114 (Ebony)	C9985 (Susie-Q)
C5115 (Putty)	C9986 (Eggshell)
C5116 (Wigwam)	C9987 (Stone)
C5117 (Acorn)	C9988 (Baby Blue)
C5118 (Fireweed)	C9989 (Purple Haze)
C5252 (Cement)	C9990 (Slime)
C5301 (Cornmeal)	C9991 (Gardenview)
C5302 (Cardboard)	C9992 (Cosmo)
C5303 (Cappuccino)	C9993 (Grape)
C5304 (Mud)	C9994 (Sand Dune)
C5305 (Tabu)	C9995 (Berry)
C5306 (Porpoise)	C9996 (Redwood)
C5307 (Camelback)	
C5910 (JD Green)	
C5920 (Cyberspace)	
C5935 (Rustic Red)	
C6601 (Buff)	
C6602 (Latte)	
C6604 (Primary Blue)	
C6606 (Neutral Gray)	
C6607 (Clay)	
C6609 (Burnt Red)	
C6611 (Evergreen)	
C6612 (Creamy Orange)	
C6613 (Sage)	
C6614 (Cream)	
C6615 (Pumpkin)	
C6616 (Lemon Yellow)	
C6617 (Teal)	
C6621 (Stormy Blue)	
C6622 (Sunrise Yellow)	
C6721 (Lipstick Red)	
C6723 (Camo Green)	
C6804 (Gladiola)	

### Varicolors

C3000 (V.C. Brown)
C3020 (V.C. Ewa Green)
C3040 (V.C. Kona Beige)
C3080 (V.C. Lanai Gray)
C3100 (V.C. Maui Blue)
C3120 (V.C. Pali Brown)
C3160 (V.C. Rose)

### Phosphorescent

<i>Glow-in-the-Dark</i>
C9110 - Blue Glow
C9120 - Green Glow

### Fluorescent

<i>Black Light Sensitive</i>
C4000 (Blaze Orange)
C4040 (Chartreuse)
C4080 (Hot Pink)
C4120 (Rocket Red)
C4160 (Signal Green)
C4180 (Horizon Blue)

## APPLICATION

### Floor Application Coverage Rates

Flake Size	Full	Partial	
Original (~1")	8-10	25-200	ft <sup>2</sup> /lb.
1/2"	7-9	25-200	ft <sup>2</sup> /lb.
1/4"	5-7	25-200	ft <sup>2</sup> /lb.
1/8"	4-6	25-200	ft <sup>2</sup> /lb.
1/16"	3-5	25-200	ft <sup>2</sup> /lb.
1/32"	2-4	25-200	ft <sup>2</sup> /lb.

\*Coverage rates vary depending on customer preferences and application techniques. Torginol does not guarantee exact coverage rates.

### Floor Application Methods

#### Hand Broadcasting :



#### Pneumatic Hopper-Blower Gun:



## TYPICAL SYSTEM

(approximate dry film thickness: 15 - 30 mils)



CLEAR TOPCOAT  
**COLORFLAKES™**  
 PIGMENTED BASECOAT  
 PRIMER / SEALER  
 CONCRETE

For best results, 10-15 mils of clear top-coating is recommended to fully encapsulate *ColorFlakes™* and provide a durable wearing surface.

## SYSTEM COMPATIBILITY

### Lab tested resin chemical compatibility:

- Epoxy
- Polyurethane
- Polyurea
- Various Polymers
- MMA
- Polyaspartic
- And others...

### Note:

*In 40+ years of manufacturing ColorFlakes™, there are no known resin incompatibilities. However, Torginol recommends unknown resin compatibility testing prior to use.*

## PRODUCT LIMITATIONS

- *ColorFlakes™* are random in shape due to our manufacturing process.
- Although the colorfast pigments in the *ColorFlakes™* are UV stable, the specifications for the UV stability and environmental durability of your coating system will determine outdoor suitability.
- Due to inherent product characteristics, a small amount of finer particles will be present within each box.
- Do NOT apply *ColorFlakes™* in rain.

## STORAGE

Store *ColorFlakes™* in an air tight poly-bag in a dry environment at room temp. to avoid moisture, humidity and product degradation.

## RECOMMENDED USES



- Aircraft Hangars
- Auto Dealerships
- Banquet Halls
- Bars, Pubs & Taverns
- Basements
- Bathrooms
- Bowling Alleys
- Butcher Shops
- Cafeterias
- Churches
- Clean Rooms
- Commercial Kitchens
- Dog Kennels
- Garage Floors
- Greenhouses
- Grocery Stores
- Hallways
- Hospitals
- Industrial Hallways
- Laboratories
- Laundromats
- Locker Rooms
- Lunch Rooms
- Night Clubs
- Offices
- Pet Stores
- Pharmaceutical Plants
- Public Municipalities
- Restaurants
- Restrooms
- Retail Stores
- Schools
- Show Rooms
- Stadium Hallways
- Zoos
- And more...