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Product Data Sheet



Polymer ColorFlakes™

Decorative Polymer Color Chips/Flakes

For use in Resinous Performance Floor Coating Systems

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:

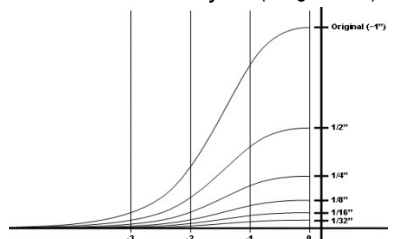
*Mandrel Bend Test ASTM F137**
 Interior Angle $\leq 110^\circ$ Pass

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

F1000 (Adobe Beige)	F9805 (Carrot Cake)
F1020 (Amethyst)	F9806 (Flesh)
F1040 (Autumn Brown)	F9902 (Black Iron Oxide)
F1045 (Beige)	F9903 (Online)
F1050 (Black)	F9904 (Dark Grey)
F055 (Brick Red)	FC9905 (Heaven)
F1060 (Brown)	F9907 (Blue Ox)
F1070 (Burgundy)	F9908 (Canary Yellow)
F1080 (Canyon Red)	F9909 (Sugar Cookie)
F1090 (Charcoal)	F9910 (Buttermilk)
F1100 (Cocoa Brown)	F9911 (Fossil)
F1120 (Crest Green)	F9912 (Toast)
F1130 (Dark Blue)	F9916 (Favre)
F1140 (Delray Blue)	F9920 (Cherry Bomb)
F1160 (Dove Gray)	F9951 (Plum)
F1200 (Dusk Blue)	F9952 (Aquamarine)
F1320 (Fawn)	F9953 (Honeydew)
F1360 (Forest Green)	F9954 (Caramel)
F1400 (Gold)	F9955 (Battleship Gray)
F1410 (Granite)	F9956 (Khaki)
F1415 (Graphite)	F9957 (Taupe)
F1420 (Hunter Green)	F9958 (Alpaca White)
F1425 (Ivory)	F9959 (Antique White)
F1430 (Jasper)	F9960 (Navajo Beige)
F1480 (Medium Gray)	F9961 (Functional Gray)
F1520 (Milkweed)	F9962 (Jetstream)
F1560 (Mint Green)	F9963 (Cobalt Blue)
F1570 (Mustard)	F9964 (Sky Blue)
F1600 (Olive)	F9965 (Lavender)
F1640 (Patio Red)	F9966 (Morning Fog)
F1680 (Peach)	F9967 (Royal Blue)
F1720 (Powder Blue)	F9968 (Steel Blue)
F1760 (Rose)	F9969 (Navy)
F1770 (Salmon)	F9970 (Moss)
F1780 (Scone)	F9971 (Peppermint)
F1785 (Tan)	F9972 (Moody Blue)
F1790 (True Blue)	F9973 (Coppertone)
F1800 (Whisper Gray)	F9974 (Brilliant Blue)
F1820 (White)	F9975 (Raisin)
F2160 (Orange)	F9977 (Daiquiri)
F2200 (Primary Yellow)	F9978 (Tomato)
F2240 (Red)	F9979 (Squash)
F2250 (Semi-Transparent White)	F9981 (Potter)
F5051 (Afterglow)	F9982 (Gravy)
F5052 (Chocolate)	F9983 (Hypnotic)
F5101 (Seaspray)	F9984 (Sonic)
F5102 (Lime)	F9985 (Susie-Q)
F5103 (Sorbet)	F9986 (Eggshell)
F5104 (African Violet)	F9987 (Stone)
F5114 (Ebony)	F9988 (Baby Blue)
F5115 (Putty)	F9989 (Purple Haze)
F5116 (Wigwam)	F9990 (Slime)
F5117 (Acorn)	F9991 (Gardenview)
F5118 (Fireweed)	F9992 (Cosmo)
F5252 (Cement)	F9993 (Grape)
F5301 (Cornmeal)	F9994 (Sand Dune)
F5302 (Cardboard)	F9995 (Berry)
F5303 (Cappuccino)	F9996 (Redwood)
F5304 (Mud)	
F5305 (Tabu)	
F5306 (Porpoise)	
F5307 (Camelback)	
F5910 (JD Green)	
F5920 (Cyberspace)	
F5935 (Rustic Red)	
F6601 (Buff)	
F6602 (Latte)	
F6604 (Primary Blue)	
F6606 (Neutral Gray)	
F6607 (Clay)	
F6609 (Burnt Red)	
F6611 (Evergreen)	
F6612 (Creamy Orange)	
F6613 (Sage)	
F6614 (Cream)	
F6615 (Pumpkin)	
F6616 (Lemon Yellow)	
F6617 (Teal)	
F6621 (Stormy Blue)	
F6622 (Sunrise Yellow)	
F6721 (Lipstick Red)	
F6723 (Camo Green)	
F6804 (Gladiola)	
F7551 (Terra Cotta)	
F9800 (Sommelier)	
F9801 (Dolphin)	

APPLICATION

Floor Application Coverage Rates

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

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

Floor Application Methods

Hand Broadcasting :

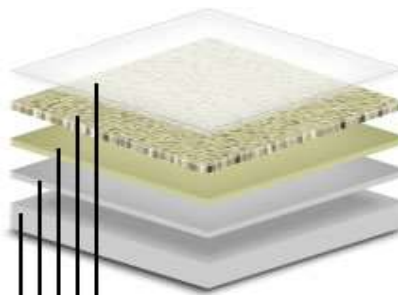


Pneumatic Hopper-Blower Gun:



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 Hangers
- 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...