



4617 South Taylor Drive  
 Sheboygan, WI 53081 | USA  
 Toll-Free 1-800-558-7596  
 (920) 694-4800 | (920) 694-4801 Fax  
 service@torginol.com | www.torginol.com

## Product Data Sheet



# Natural ColorMicas™

## Natural Mica Mineral Flakes

For use in Resinous Performance Floor Coating Systems

### DESCRIPTION

**Product Name:**

Natural Mica Mineral Flakes  
 Trade Name: ColorMicas™

**Manufacturer:**

Torginol, Inc.  
 4617 South Taylor Drive  
 Sheboygan, WI 53081 USA  
 (800) 558-7596 toll-free  
 (920) 946-4800 telephone  
 (920) 946-4801 facsimile  
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Torginol ColorMicas™ make resinous flooring glisten with natural crystalline beauty. These unique metallic flakes are derived from a group of sheet silicate minerals known as mica, including muscovite, phlogopite, biotite and clintonite, to name a few. Through a technical manufacturing process, the distinctive hexagonal atom arrangement of the mica minerals is separated into sheet-like pieces and broken down into standardized flake sizes. These unique flakes provide a natural metallic luster to resinous flooring systems that cannot be achieved with other engineered materials.

**ColorMicas™ Advantages:**

- Colorfast, UV stable
- Unique natural metallic luster
- Custom blending services
- Two standard sizing options
- Lab tested resin compatibility
- Custom blend-matching expertise
- Chemical & abrasion resistant
- Sound reducing ergonomics
- Slip resistant texturing
- Suitable in many environments
- Economical decorative solution
- Custom packaging & label options
- No minimum order quantities
- Hides sub-surface imperfections
- Easy & forgiving application

### CHARACTERISTICS

**Color:**

Visual Consistency ASTM E1808  
 Evaluation Pass

**Dry Film Thickness:**

Micrometer ASTM D1005  
 Mills Dry 3 - 5 mils

**Shape:**

Visual Evaluation  
 Random Flakes Pass

**Odor:**

Olfactory Evaluation ASTM D1296  
 Odorless Pass

**Surface Texture:**

Visual Evaluation  
 Smooth Pass

**Metallic:**

Multiangle Color ASTM E2194  
 Metallic Pass

**Sheen:**

60° Gloss Meter ASTM D523  
 > 60 units Pass

**Dry Film Flexibility:**

Mandrel Bend Test ASTM F137  
 Interior Angle ≤ 110° Pass

**Size Profiles:**

**Micro**



**Macro**



### MICA MINERAL OVERVIEW

**Muscovite**



**Phlogopite**



**Biotite**



**Clintonite**



**About Mica Minerals:**

Mica is a group of phosphoaluminosheet silicate (phyllosilicate) minerals that are found on every continent. These unique minerals have highly perfect basal cleavage and are monoclinic with a tendency towards pseudo-hexagonal crystals. The highly perfect cleavage, which is the most prominent mica attribute, is explained by the hexagonal sheet-like arrangement of its atoms. Typically, mica is a sparse byproduct of various mining activities, including feldspars and quartz. In addition to resinous flooring, mica is used extensively in electronics, automotive paints, cosmetics, plastics and rubber industries.



# Natural ColorMicas™

Natural Mica Mineral Flakes



## COLOR INDEX



**M1000**  
*Multy*



**M1010**  
*Silver*



**M1020**  
*Gold*



**M1030**  
*Midnight*



**M1040**  
*Amber*



**M1050**  
*Rum*

## APPLICATION

### Floor Application Coverage Rates

<u>Flake Size</u>	<u>Full</u>	<u>Partial</u>	
Macro	15-17	25-200	ft <sup>2</sup> /lb.
Micro	13-15	25-200	ft <sup>2</sup> /lb.

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

### TYPICAL SYSTEM

(approximate dry film thickness: 15 - 30 mils)



CLEAR UV TOPCOAT  
**COLORMICAS™**  
 PIGMENTED BASECOAT  
 PRIMER / SEALER  
 CONCRETE

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

### SYSTEM COMPATIBILITY

#### Lab tested resin chemical compatibility:

- Epoxy
- Polyurethane
- Polyurea
- MMA
- Polyaspartic
- Waterborne
- Solvent-based
- And others...

#### Note:

To date, no known resin incompatibilities exist. However, Torginol recommends unknown resin compatibility testing prior to use.

### PRODUCT LIMITATIONS

- ColorMicas™ are random in shape due to our manufacturing process.
- Due to inherent product characteristics, a small amount of finer particles will be present within each box.

### STORAGE

Store ColorMicas™ in an air tight poly-bag in a dry environment at room temperature to avoid moisture and humidity.

## RECOMMENDED USES



- Airports
- Art Centers
- Auditoriums
- Auto Dealerships
- Banks
- Banquet Halls
- Bars, Pubs & Taverns
- Boutiques
- Casinos
- Churches
- Concourses
- Corridors
- Country Clubs
- Department Stores
- Financial Institutions
- Foyers
- Galleries
- Garage Floors
- Hotels
- Kitchens
- Lavatories
- Lobbies
- Lounges
- Museums
- Nightclubs
- Office Buildings
- Restaurants
- Retail Stores
- Salons
- Shopping Centers
- Showrooms
- Spas
- Sunrooms
- Supermarkets
- Universities
- Vestibules
- Wineries
- And more...