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Product Data Sheet

ColorMicas™

Natural Mica Mineral Flakes

For use in Seamless, Resin-based Flooring Systems

For more information, please visit our website at: www.agsco.com

DESCRIPTION

Product Name:
Natural Mica Mineral Flakes
Trade Name: *ColorMicas* ™

Manufacturer:
Agsco Corporation
160 W. Hintz Road
Wheeling, IL 60090 USA

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Agsco *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 & abbrasion resistant
- Sound reducing ergonomics
- Slip resistant texturing
- Suitable in many environments
- Economical decorative solution
- Custom packaging & label options
- Easy & forgiving application
- Hides sub-surface imperfections

CHARACTERISTICS

Color:
Visual Consistency *ASTM E1808*
Evaluation Pass

Dry Film Thickness:
Micrometer *ASTM D1005*
Mils Dry 3 - 5 mils

Shape:
Visual Evaluation
Random Flakes Pass

Odor:
Olfactory Evaluation *ASTM D1296*
Odorless Pass

Surface Texture:
Visual Evaluation
Smooth Pass

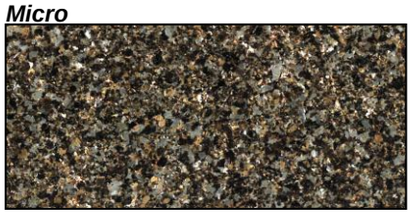
Metallic:
Multiangle Color *ASTM E2194*
Metallic Pass

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

ColorMicas™

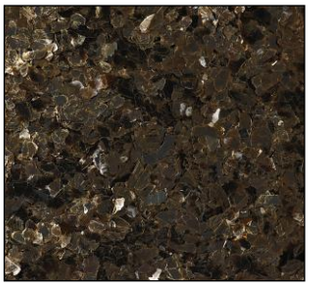
Natural Mica Mineral Flakes

COLOR INDEX

M1000
Multy

M1010
Silver

M1020
Gold



M1030
Midnight

M1040
Amber

M1050
Rum

APPLICATION

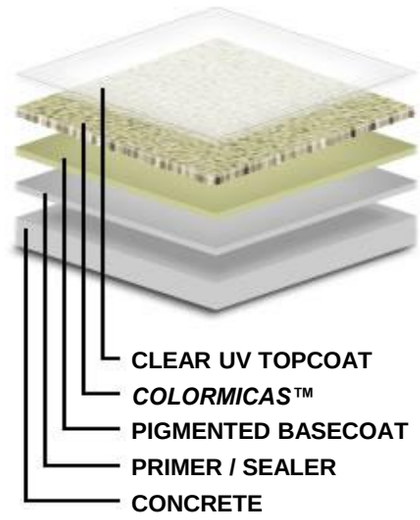
Floor Application Coverage Rates

Flake Size	Full	Partial	
Macro	15-17	25-200	ft²/lb.
Micro	13-15	25-200	ft²/lb.

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

TYPICAL SYSTEM

(approximate dry film thickness: 15 - 30 mils)



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, Agsco 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
- Gentlemen's Clubs
- Hotels
- Kitchens
- Lavatories
- Lobbies
- Lounges
- Museums
- Nightclubs
- Office Buildings
- Restaurants
- Retail Stores
- Salons
- Shopping Centers
- Showrooms
- Spas
- Sunrooms
- Supermarkets
- Universities
- Vestibules
- Wineries
- And more...