
Technical Data Sheet

PhibroPearl®

Description

Phibro provides a broad color selection of pearlescent pigments to meet your specific needs. Commonly used to color coatings and plastics. Offered in various colors and particle sizes. Coated micas can produce a wide array of colors, particle sizes and special affects.

PhibroPearl® Grades

| Series | Description |
|-------------------|-----------------------------------|
| Silver White | Traditional white micas |
| Interference | All colors of the rainbow |
| Gold Luster | Range of gold and copper |
| Metallic Luster | All new metallic look |
| Weather Resistant | Specially designed for Automotive |
| Multi Color | Unique micas redefined |
| Black Pearl | Beautiful black metallic |
| Crystal | Traditional with a new look |

Applications and General Information

Add mica to coatings under mild agitation. Avoid agglomeration by adding slowly to the vortex. Frequently used from 1 – 5% by weight.

Contact PhibroChem for a complete list of PhibroPearl® products.
25Kg Drum

Handling and Storage

This product will remain consistent when stored in a dry environment at temperatures of 110 °F or below. Non-volatile and exhibits a high degree of temperature resistance. Please note that static discharge risk exist when mica particles are suspended in air. Proper cautions must be taken to avoid risk of fire due to static discharge.

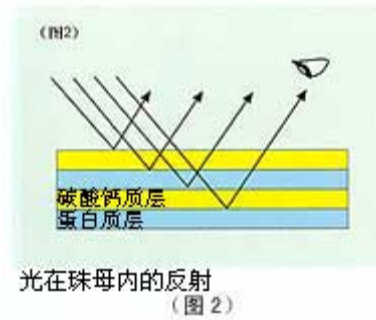
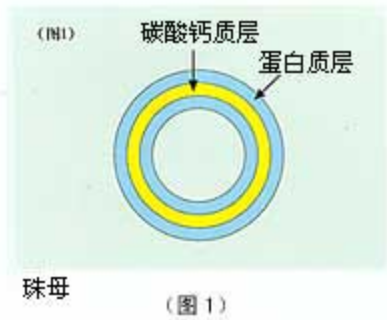
All information is given in good faith, but without warranty. Freedom from patent restrictions should not be assumed.

Other Information

General Information – Coated Micac Used As Pigments

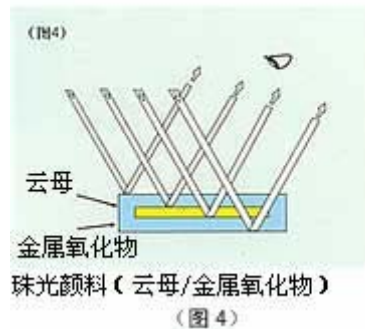
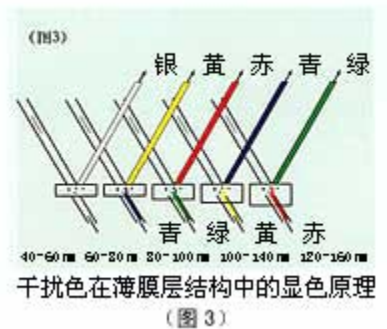
Mechanism

Natural pearl is based on the stratified structure, alternative layers of calcium carbonate and protein layers. (figure 1)
 Because of the interaction of reflected and refracted light rainbow like interference colors are created (figure 2)



Synthetic pearl pigment uses this mechanism of natural pearl to create pearl-like luster. Incident light is reflected and refracted by metal oxide coatings therefore some of the light is transmitted and some part will be reflected. The color is determined by coating thickness. (figure 3)

Pearl pigment falls within an inorganic pigment category. It consists of mica platelet coated with high refractive index metal oxide, such as titanium dioxide, ferric oxide. (figure 4)



By controlling the thickness of titanium dioxide an interference color is achieved. Mica coated with chromic oxide or ferric oxide will create metallic effect. Gold color is obtained by alternative coatings of titanium dioxide and ferric oxide.

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