

Mica & Colours

Description

SHIMI PRO Mica & Colour Pigments / For Special Effect Resurfacing Systems

SHIMI PRO Mica & Colour Pigments are special effect pigments composed of mica nano-particles coated with various inorganic pigments to create metallic effects that mimic the natural look of stone and rock formations. These unique pigments are designed to be filed blended with our 100% solids clear Epoxy resins. When the metallic particles are mixed with epoxy, they give the coating a shine that reflects light and creates eye-catching dramatic effects.

Mica Powder Pigments in Epoxy:

Mica & Colour Pigments are commonly used in epoxy coating systems as the mid coat (second coat) over the primer/basecoat Epoxy. Your metallic pigments should be mixed with clear epoxy and installed over an epoxy tinted base coat. The most popular basecoats are Onyx Black or Pearl White. Typically, people use black for base coat. If you're just using the metallic powder pigments in a clear coat you need to put your coating on much thicker than normal rolling or brushing, in order to cover and achieve the desirable color. We normally recommend 500-1000micron Clear Topcoat, which is 500mL to 1Lt per sqm resin. 250gr container shall be added into 15 Liter of 100% solids epoxy to be enough for 15sqm of coverage of rich 1000µ per sqm. Mica & Colour Powder Pigment can be used in floor coating, countertop resurfacing, wall paints, plastic molding, ink applications, arts and crafts. Always test your method of use before applying to your entire project.

Our MICA Powder Pigments being used globally to create unique stunning Polyurethane & Epoxy Resin designs. It is a great fun to play with these pigments and create your own unique and exotic colour combinations. Using our Pigments, you will be guaranteed; Non-bleed or Fading, Non-Rust or Toxic, Vegan & Cruelty Free, Food and Drug Administration (FDA) compliance and temperature resistance so can be used for worktops and floors with underfloor heating. SHIMI PRO MICA Powder Pigments mix well with any clear epoxy on the market and disperse rapidly. The finished surface is a designer high gloss appearance with subtle reflective sparkle. Very unique and impossible to replicate two floors exactly the same. There are endless creative and stunning techniques and finish surface that you can call your own.

Composition of SHIMI PRO MICA Powder Pigments

SHIMI PRO MICA Powder Pigments contain the following mineral and inorganic compounds at different ratios for various colours and effects:

- Mica "Potassium Aluminum Silicate (PAS)"
- Titanium Dioxide (TiO₂)
- Selenium Dioxide (SnO₂)
- Ferric Iron Oxide (Fe₂O₃)

It contains 100% naturally occurring inorganic compounds.

SHIMI PRO MICA Pigment Powders are composed of above metal oxide layers of moldy mica. Pearl pigments change the thin layer of metal oxide to produce different MICA effects. Compared with other pigments, MICA pigments have an unparalleled effect on the unique soft pearl luster. The special surface structure, high refractive index and good transparency make it the same effect as pearl in a transparent medium.

The excellent chemical and high temperature resistance of MICA pigments offers its potential for wide application in coatings, inks, plastics and many other fields. They provide a new color system and color quality for these products. SHIMI PRO MICA pigments are low in heavy metal and meet the safety standards to be used in many commercial and domestic applications. Both acid and alkali cannot attack MICA pigment at room temperature. SHIMI PRO MICA Pigment cannot burn, is not self-igniting, is not conductive, and can withstand high temperatures up to 800°C (1,100°F). MICA pigments can also be used in reactive coatings for radiation curing systems (electron multiply curing, photocuring). SHIMI PRO MICA Powder Pigments are one of our most versatile products that can be used to create your desirable metallic or MICA effect in many resin systems. The product may be used in acrylics, oils,

printing inks, encaustics, alcohol inks, epoxy, glues, casting resins, clay, varnishes, etc. MICA Pigments are safe, inert pigment that exhibits extreme colorfastness and stability. The different particle sizes produce different effects, from a smooth pearly luster, to a highly metallic sheen. The product creates a metallic effect without being a real metal—it will never tarnish or fade!

Note: SHIMI PRO MICA Pigment Powders are specifically engineered for art/craft materials, surface coating and industrial applications.

SHIMI PRO MICA Powder Pigments are ideal for Translucent Effect. The product can be used in many coating applications in bars, clubs, retail stores, residential interior floors and showrooms. For further information, please refer to SHIMI PRO website or contact one of our sales and technical team.

Features

- 100% naturally occurring inorganic compounds.
- Widely used in epoxy, acrylic and many other resins.
- MICA pigments are also used in epoxy paint, art and craft, industrial coating applications.
- Quality pearl pigments are easily dispersible into transparent paint.
- Required dosage of only 1%-2%.
- Rapidly disperses into your liquid system.
- Easy roll, brush or pour-on application.
- Great modern colour choices.
- Provides a beautiful three-dimensional appearance
- Unique in design offering the illusion of ripples, craters and swirl

Usage

20gr (One spoon full) to be added per liter of Epoxy Resin/Part A (1 Spoon/Lt) to cover 1sqm. Dosage may increase or decrease to your desired effect.

Applications

Add into Part A resin, mix well followed by adding Part B into the resin. Apply to the surface in your desired method:

- Pour On and squeegee to spread over the surface
- Roll On using a Roller

Brush On using a Brush

Preparations

Clean and dry surface. Ensure surface to be coated is free of all dirt, grease, oil, paint, curing agents and other contaminants. Removal of Oil Contamination by degreaser and alkaline cleaning pressure wash.

Acid-wash to enhanced surface porosity and etch the surface. Ensure moisture free surface. Allow to completely dry, run Dry Test. Place a piece of plastic over a small area, tape the edges and leave for 1 hour. Remove plastic, if there is no moisture on either surface, concrete is sufficiently dry.

Ideally, always consider surface grinding and removal of loose materials. Grinding is always advisable prior to application of all SHIMI PRO Epoxy products, to maximize adhesion.

For further information, please refer to SHIMI PRO Instruction for "Surface Preparations".

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Product Datasheet – V01 / 2025

Specifications

SHIMI PRO Pearl Luster Metallic Pigment contains Mica and Titanium Dioxide. Both components are naturally occurring inorganic compounds:

Attribute	Properties
CAS No	12001-26-2 and 1309-37-1
Formula	Mica and Titanium Dioxide
Colour	Available in many colours
Appearance	Superfine easily dispersible Powder
Applications	Paint, Coating, Ceramic, Cosmetic, Plastic, Leather, Ink, Paper
Density	3g/mL (3gr/cm ³)
Other Properties	Chemical Resistant - Water Resistance -Heat Resistance - UV Resistant -Non-toxic

Colour Chart

You can choose any combination for your metallic colour finish. We recommend choosing lighter colours such as Pearl White, Silver Frost, Milky Marble as main colour and any other colours as feature/contrast colour. If you wish to get darker surface, you may chose Gun Metal which provides smoky black appearance.

- Copper Cup
- Dragon Gold
- Flame Red
- Forest Green
- Grass Green
- Gun Metal
- Lime Green
- Pink Perfect
- Royal Blue
- Coffee Club
- Silver Frost
- Vibrant Purple
- Wild Orange
- Pearl White
- Milky Marble
- Metallic Yellow
- Top Teal
- Turquoise
- Cobalt Aqua

For further information please contact our technical team at SHIMI PRO Pty Ltd.

Direction

Mixing

MICA Pigment Powders uses, applications, mix ratios and % proportions.

Paint Applications - Usage	Grams Per Litre
Automotive and Refinishing Paints	15-25
Household Electronic and Appliance Paints	5-25
Inner and Outer Wall Paints	15-25
Epoxy Coating Applications - Usage	Grams Per Litre
Solid Pearls - Ghost Pearls - Nebula Pearls	15-25
Colour-Shift & Chameleon Pearls	20-50
Glow in the Dark Pigments	50
Micro Flakes & Glitters - Holographic Micro Flake	5
Plastic/Acrylic Applications - Usage	Proportion (%)
Plastic Bottles	0.5-2

The mix procedures below are indicative

Plastic Parts	0.3-1
Plastic Films	1-4
Latex and Rubber Products	5-15
Plastic/Acrylic Applications - Usage	
Proportion (%)	
Plastic Bottles	0.5-2
Plastic Parts	0.3-1
Plastic Films	1-4
Latex and Rubber Products	5-15
Ink Applications - Usage	
Proportion (%)	
Gravure Inks	5-15
Screen Inks	10-30
Offset Inks	5-10

guidelines/suggested proportions only. Adjustments can be made based on your personal preference/application. Always use a test piece first.

Clean Up

The product is dusty, handle carefully and wipe off the surfaces once finished. Use thinner & Diluent (Blend of Solvents) to remove colour stains.

WARNING

Keep out of reach of children
Read Safety Material Data Sheet (MSDS) of the product prior to use.

Pack Sizes

Kit Sizes
250gr
20Kg

Storage

The products shall be stored out of direct sunlight and heat at all times. The shelf life of the product is 24 months.

DISCLAIMER

Material Safety Data Sheet, Technical and Environmental Data Sheet can be provided upon request. The information provided in this document is guidance only and considering the uses of this product are beyond the seller's control, the product is sold without guarantees or warranties. Warranties and guarantees shall be governed by SHIMI PRO Standard Terms of Sale. The purchaser shall make its own tests to determine the suitability for their specific application, and SHIMI PRO Pty Ltd is taking no responsibility for misuse of the product. The purchaser assumes all risk of use and handling of this product. This product will be happily replaced or credited back if defective. Beyond this, SHIMI PRO Pty Ltd is not liable for any damages caused by this product or its use.

This information and all further technical advice are based on our present knowledge and experience. The customer is not released from the obligation to conduct careful inspection and testing of supplied goods.