



ZeraOrnate™ MF

Decorative Metallic Epoxy Floor Coating

DESCRIPTION

ZeraOrnate™ MF is a 100% solids, three-part epoxy flooring system that contains advanced ‘pearlescent pigment’ technology. It provides artistically designed floors with special effects that reveal unique pattern and color shifting properties like no other.

This metallic finish requires a pigmented primer coat (black primer is recommended for most colours; white primer for white), a 100% solids clear epoxy coating (ZeraOrnate Resin) in combination with metallic colour paste; an optional clear topcoat (ZeraKlear UL) may be used to further protect the metallic floor finish. We offer a variety of metallic colors to choose from.

WHERE TO USE

ZeraOrnate™ MF is recommended for hotel lobbies, offices, retail shops, shopping malls, art galleries, studios, showrooms, lofts, furniture stores, restaurants, night clubs, casinos and basements.

HANDLING PROPERTIES @ 23°C (74°F)

Viscosity (Mixed)	600 cps
Solids Content.....	100 %
Mixed Weight (Density)....	1.1 kg/litre (9.14 lb./US gal)
Pot Life (working time)	40 minutes
Foot Traffic	16 hours
Full Cure and Maximum Resistance	7 days

SURFACE PREPARATION

ZeraOrnate™ MF should be applied over clean, sound, dust-free surfaces. For best results, the surface should be prepared as follows.

Existing Epoxy Floor:

Make sure the floor is clean and free from oil or grease. The floor must be sanded with 80-100 grits to provide profile for adhesion. Ensure that the existing floor is sound and adhered well to the concrete. Epoxy

coating would not adhere to alkyd or oil based coated floors.

Concrete (New):

Grind the floor to remove surface laitance, curing compounds or form oils. Concrete should be a minimum of 28 days old or have 3% or less moisture content. Moisture content can be determined using the test method ASTM D4263.

Concrete (Old):

Remove oil, grease, dirt and any unsound concrete using a combination of commercial de-greasers, alkaline wash, shot blasting or diamond grinding. A combination of acid-etching and power wash can also be used. Cracks and surface defects should be repaired prior to the application of coating.

CRACK REPAIR

Because of the nature of the product, all floor imperfections will show through the final coating, which makes it critical to have an almost perfect floor prior to the application of the clear topcoat. If the level of crack repair and imperfections is excessive, we do not recommend using clear epoxy. If the cracks are minimal, use ZeraBond™ Type 3 clear epoxy gel. Grind the surface after the gel is firmly cured in order to smooth it for the application of the topcoat.

AREA PREPARATION

For optimal performance, both the coating and substrate should be maintained at 18 to 30°C (68 to 86°F) for 24 hours prior to beginning work. The same temperature range should be maintained during mixing, application, and cure.

PRIMING

Over sound epoxy floor, no primer is required. Over concrete floor, use an epoxy primer ZeraPrime™ 100FS to hide floor imperfections and provide a

uniform finish.

APPLICATION

- Add the Colour Pack to Part A and mix thoroughly using a slow speed ½ inch drill motor with “jiffy” type blade until uniform in colour.
- Add the entire package of Metallic Paste (colour pack container) to Part A and mix thoroughly using a slow speed ½ inch drill motor with “jiffy” type blade for two minutes. Then add Part B to the mixture of Part A and Metallic Paste and mix thoroughly for another two minutes. Scrape the sides of the container and continue mixing until the coating is uniform.
- Film thickness must be 15 to 20 mils to ensure movement and leveling, otherwise the desirable finish will not be obtained.
- The application techniques will determine how the final finish will look like. The recommended technique is to use air to create a more dynamic metallic effect. This should be done approximately 15 mins after the application, otherwise the special effect will disappear as the epoxy coating continues to flow and level.
- A leaf blower can be used to disperse the roller marks, ripple, crater, and impel the metallic pigment. Using the air technique is an option among many other techniques.
- It is recommended to protect the metallic finish with a clear topcoat. A few options to consider are ZeraKlear™ UL or ZeraTuf™ W-104 (waterborne urethane).

Non-Slip Finish:

To achieve a non-slip finish, use a clear coat of epoxy (ZeraKlear™ UL) or polyaspartic (ZeraBrite™ SA) in conjunction with a dry 31 mesh silica and back roll. This may be used for applications such as residential garage floors. It is not recommended otherwise because non-slip will take away from the attractive metallic finish.

- **Note:** Multi-dimensional and color hues vary depending on lighting conditions and view angle. The color of the primer or existing epoxy floor as well as the color combination and film thickness you use all affect the final appearance.

LIMITATIONS

- Do not apply ZeraOrnate™ MF if the substrate and ambient temperatures are below 12°C (54°F) or 18°C (65°F) for countertop applications.
- Do not hand-mix ZeraOrnate™ MF; mechanical-mix only.
- Protect from dampness, condensation and water contact during the initial 24-48 hour cure period.
- Do not leave mixed material (Part A & B together) in the container for an extended amount of time; it will harden, warm up and smoke.
- Do not use over existing floor without testing both the inter-coat adhesion as well as the adhesion of the existing floor to concrete.

THEORETICAL COVERAGE

ZeraOrnate™ MF (14 mils): 2.9 m²/litre (115 ft²/U.S. gallon)

PACKAGING

11 Litre (2.9 U.S. gal.) units (3 part combined)

CLEAN UP

Clean all tools and equipment with xylene prior to the material setting.

SAFETY PRECAUTION

Consult the Material Safety Data Sheet (MSDS) for specific instructions.

STORAGE

Store in a heated warehouse. Do not freeze.

SHELF LIFE

Two years from the date of manufacture if kept in original unopened containers under normal heated warehouse conditions.

SAFETY PRECAUTIONS

Read Material Safety Data Sheet (MSDS) prior to use.

WARRANTY

“The recommendations made and the information herein is the result of accurate laboratory and field tests under controlled conditions. We guarantee that the quality and properties of the materials supplied conform to our standards. Zeraus Products Inc. makes no warranties, expressed or implied, as uses and applications are beyond our control. Zeraus Products Inc. shall not be liable for any injury, loss, or damage (direct or consequential) arising from use or inability to use the products. Before using, the user is urged to pre-test the products in his/her own environment to determine the suitability of the products for their intended use, and the user assumes all risk and liability whatsoever in connection therewith.

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