

Lümiere

designer metallic epoxy coating



DESCRIPTION

Lumiere is a premium quality reflector metallic epoxy flooring system that combines the strength and durability characteristics of industrial coatings and reflective enhancer properties of Lumiere metallic essence. Lumiere metallic pigments are a versatile class of coloring agents, composed of fine particles of malleable metals in elemental form. The significance comes from their ability to provide stunning visual effects that are impossible using traditional organic and metal compound pigments. Lumiere metallic essence retain many of the attributes of the bulk metal, such as solidity (opacity), metallic color, sheen, malleability, ductility and density. Their use as coloring matter reflects this. Aluminum and gold bronze pigments provide the appearance of silver and gold respectively, with the aura of quality and prestige that these metals imply. For this reason, Lumiere designer epoxy flooring is often used in prestige applications to add value.

ADVANTAGES

- Good clarity and color retention
- Zero VOC
- Low viscosity - easy application and clean-up
- Low odor during application and curing
- Available in fast cure option

SUBSTRATE REQUIREMENTS

- Substrate temperature must be a minimum of 10°C and relative humidity below 85% for proper curing.
- Substrate must be free of dirt, waxes, curing agents and other foreign materials
- Not recommended for immersion in oxidizing agents or mineral acids

COMPOSITION

- 100% solids epoxy, aliphatic amines and metallic pigments

COLOR SELECTION

- Lumiere Metallic Essence is a colorful metallic powder pigment that is added to Lumiere clear bodycoat. It is available a wide variety of colors. [Click here to view the color chart.](#)

APPLICATION

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared as outlined in Düraamen's Technical Bulletin #

1. Work must be performed by trained or experienced contractors or maintenance personnel. The Düraamen Company's service department is pleased to answer any technical questions.

INSTALLATION

The Lümiere metallic epoxy flooring system is normally applied as a three or four coat system. It involves the application of a primer coat, a body coat and one or more applications of polyurethane and/or polyaspartic topcoats.

For complete installation instructions contact your Düraamen representative.

CLEAN UP

Clean skin with soap and water. Tools and equipment should be cleaned with Xylene or Lacquer thinner. Consult MSDS for safety and health precautions.

COVERAGE

Lumiere covers 6–12m²/L depending on application method.

MAINTENANCE

After completing the application of Lümiere, the installer should provide the owner with maintenance instructions.

TECHNICAL SERVICE

Düraamen Engineered Products, Inc. provides services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces.

TECHNICAL DATA

Viscosity @ 24°F	750-1000cps
Mixing Ratio	2 parts A to 1 part B by volume
Solids Content	100% by volume
Volatile Organic Content	-0-
Weight Per gallon	1.08-1.14 Kg per liter, mixed
Gloss, 16°C	100-110

CURE/DRY TIME

Pot Life	30-40 minutes @ 24°C (75°F)
Dry to Touch	10-12 hours @ 24°C (75°F)
Re-Coat	12-16 hours @ 24°C (75°F)
Light Traffic	24 hours @ 24°C (75°F)
Full cure & maximum resistance	5 days

CHEMICAL RESISTANCE

Reagent	Rating
Acetone	L
Ammonia Hydroxide – 38%	R
Beer	R
Bleach	L
Brake fluid	L*
Ethylene glycol	R
Fatty acids	L
Gasoline	L
Hydrochloric acid 15%	R
Lactic acid 10%	R
Orange Juice	R
Peroxide 35%	L
Phosphoric Acid 85%	L
Skydrol	L
Sodium Hydroxide 50%	R
Sulfuric acid 20%	R
Toluene	L
Urea	R
Vinegar	L
Xylene	L

R – Recommended for continuous service

L – Limited recommendation, occasional spills

* - May cause slight stain or discoloration

PERFORMANCE PROPERTIES

Tensile Strength ASTM D638	58.61N/mm² (8500psi)
Adhesion to Concrete (ACI 403)	2.413N/mm ² (350psi) 100% concrete failure
Hardness(ASTM D-2240)	80 Shore D
Flexural Strength, ASTM D-790	55.16N/mm ² (8800psi)
Compressive strength, ASTM D-695	75.84N/mm ² (11000psi)
Service temperature	66°C (150°F)
Water absorption, ASTM D670-73	0.10% maximum

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