



MiraFlor Metallux

Product Technical Data Sheet

MiraFlor Metallux is a unique architectural, high-solids, resinous floor coating that utilizes metallic and pearlescent powder integral pigments to produce brilliant and dynamic designer effects for illumination and beautification of concrete floors and other surfaces. Although suitable for the metallic pigmentation any clear, high-solids MiraFlor polymeric flooring resin, MiraFlor Metallux integral pigments are most

frequently used in conjunction with MiraFlor CQ Clear Epoxy for economy and ease of use. Depending on specific service conditions and owner requirements, MiraFlor Glazetop and MiraFlor Glazetop FC are also excellent choices for use with MiraFlor Metallux pigments.

Depending on performance requirements, exposure conditions and light reflectivity, other MiraFlor resinous clear topcoats are available to reduce the degree of sheen, enhance chemical resistance, abrasion resistance or provide anti-microbial protection when demanded. Contact a local Miracote representative for the most appropriate MiraFlor topcoat among which includes novolac epoxy, polyurethane, polyaspartic or polyurea technologies.

WHERE TO USE

- Retail malls and stores
- Commercial offices and reception areas
- Restaurants, lounges and night clubs
- Entertainment and dining facilities
- Automotive and show room floors
- Fitness centers and locker rooms
- Cafeteria's and food service facilities
- Residential basements and garage floors

ADVANTAGES

- Limitless distinctive designs and color variations.
- Superior chemical and abrasion resistance.
- Wide range of metallic colors and resin choices.
- Blend two or more pigments to create hybrid colors
- Lower maintenance and life cycle costs vs. other flooring types.
- LEED-compliant, low odor and fast cure time.
- Meets USDA, FDA, OSHA standards.
- Superior resin clarity, color retention and UV stability.

SYSTEM COMPONENTS

MiraFlor CQ Clear Epoxy – Primer Coat

MiraFlor CQ Clear Epoxy – Resinous Base Coat

MiraFlor Metallux – Metallic and pearlescent pigment effects

THEORETICAL COVERAGE RATES

Primer Coat.....300-320 sq. ft. per gal

Metallux Coat.....75 to 100 sq. ft. per gal

PACKAGING and COLORS

MiraFlor CQ Clear Epoxy

Kit Sizes: 1.5 gallon, 3 gallon, 15 gallon, 150 gallon

Component A: 1-gal, 2-gal, 5-gal, 50-gal units

Component B: .5-gal, 1-gal, 5-gal, 50-gal units

MiraFlor Metallux Pigment Effects

Packaged in 8 oz. jars filled by volume (6-8 oz. by weight)

Colors:

Charcoal, Chocolate, Cobalt Blue, Copper Kettle, Cranberry,

Emerald Green, Graphite, Mustard, Orange, Pearl, Pewter,

Pistachio, Sparkle Silver

MIX RATIO

MiraFlor CQ Clear Epoxy

Component 'A' : Component 'B' = 2 : 1 by volume.

MiraFlor Metallux Pigments

One (1) 8 oz. jar per mixed gallon - always add to Component A
(Due to settlement and compaction jars may appear short-filled)

SHELF LIFE AND STORAGE

One year from the date of manufacture as long as containers remain unopened and material is stored in a protected environment free from moisture, excessive heat, freezing temperatures, and direct sunlight.

TYPICAL PHYSICAL PROPERTIES @ 75°F (24°C)

MiraFlor Metallux with CQ Clear Epoxy**

Viscosity (mixed).....	750 cps
Solids Content.....	100%
Pot Life (1 gallon mass).....	Approximately 30 minutes
Tack-Free Time:	
50°F (10°C):	10-12 hrs.
75°F (24°C):	4-6 hrs.
90°F (32°C):	2-4 hrs.
Compressive Strength ASTM D695	12,900 psi (Resin & Hardener)
Tensile Strength ASTM D638	4,400 psi (Resin & Hardener)
Adhesion ASTM D4541	>400 psi (100% failure in concrete)
Water Absorption MIL-D-3134	<1.0%
Abrasion Resistance ASTM D4060	0.09 gr (CS17, 1000gr load, 1000 cycles)
Flammability ASTM D635.....	Self-Extinguishing Bonded to Concrete
VOC	3 g/L
Microbial Resistant ASTM G21	Passes Rating 1
Chemical Resistance	(see Chemical Resistance Chart)

**** Refer to appropriate Miracote product technical data sheets for MiraFlor Glazetop and MiraFlor Glazetop FC when utilizing with MiraFlor Metallux powder integral pigments.**

OVERVIEW OF INSTALLATION STEPS

- **Surface Preparation** – All surfaces must be clean, sound, dry and free from any bond inhibiting substances including, but not limited to, grease, oil and any other contaminants or loosely adhered materials. For concrete substrates, a minimum surface profile of a CSP-3 or higher is required depending on overall substrate conditions and coating requirements.
- **Mixing** – MiraFlor clear polymeric resin components must be mixed mechanically using a low-speed drill (300-450 rpm) until blended with a “Jiffy-type” or similar Miracote-approved mixing paddle. Pre-mix MiraFlor Metallux pigment thoroughly into Component A several hours or the prior day before use to allow any entrapped air to dissipate. Empty entire contents of component A and component B into a clean mixing vessel. Mix for approximately 3 minutes keeping the mixing head fully immersed at all times. At least

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once when mixing, top to scrape down the sides and bottom of the pail to ensure thorough blending of both components. If not mixing full units, each component must be pre-mixed individually ensuring uniformity prior to use. Once completely mixed and in observance of pot life, dispense material immediately from the pail to the substrate. Never scrape resin from the inside walls of the mixing vessel directly onto the concrete floor.

• Application –

Primer: When mixed pour out MiraFlor CQ or other suitable Miracote primer in a ribbon across the concrete surface to receive broadcast. Using a flat squeegee, spread the material evenly left to right, and back-roll using only a 3/16” or 1/4” maximum nap roller. Allow the primer to dry until it is completely tack free.

Metallux Base Coat: Pour out mixed Metallux pigmented epoxy in large ribbons across the tack-free primed concrete surface. While wearing spiked shoes, spread evenly with a 1/8” notched trowel to ensure consistent and complete coverage on the floor. When using multiple Metallux colors be careful not to over-work, and allow individual colors to bleed and migrate into one another.

Optional Clear Coat: Although not required, for optimal depth performance, and stain resistance it is strongly recommended to apply one or two clear Miracote finish coats over the completed MiraFlor Metallux flooring system. Contact a local Miracote representative or Technical Service for a recommendation based on service requirements and operating conditions.

FOR BEST RESULTS

- Always install a minimum 4’ by 4’ test area site mock up for approval of acceptable color, texture, finish, adhesion, and any other critical requirement acceptable to the owner prior to proceeding with the installation.
- Verify and download current versions of product technical data sheets (PTDS), material safety data sheets (MSDS), and installation guides (IG) at www.miracote.com.
- Protect materials at all times from excessive heat and cold, and pre-condition to room temperature as necessary.
- Regularly check wet film thickness with mil gauge and monitor consumption to ensure correct application rates are obtained.
- The proper application of this product is the sole responsibility of the end user. Job site visits by Miracote representatives are only for the purpose of making recommendations, and do not assume any liability for supervision or quality control.
- Measure surface and ambient temperatures to ensure the material is only applied when temperatures are 50°F (10°C), and rising during placement and cure time.
- Always have a porcupine roller on hand in the event that bubbling or outgassing occurs.

LIMITATIONS

- Installed product forms a vapor barrier after cure.
- Not intended for use on exterior concrete slabs-on-grade.
- Minimum ambient/substrate temperature of 50°F (10°C).
- Concrete must be minimum age of 21-28 days, depending on mix design, curing and drying conditions.
- Maximum allowable moisture vapor transmission (MVT) of 3.0 lbs./1000 sf./per 24 hr. period per ASTM F1869 (CaCl Testing).
- Maximum allowable moisture vapor transmission (MVT) of 75% RH as per ASTM F2170 (RH-Relative Humidity Testing).
- Use MiraPrime MVERS epoxy moisture mitigation primer over concrete substrates that have MVT emissions that exceed these limits.

LIMITED WARRANTY

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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