



MiraFlor Chip Binder Flake Broadcast

System Technical Data Sheet

MiraFlor Chip Binder Flake Broadcast is a high-solids, low odor, pigmented epoxy resin designed for use only as a receiving coat for decorative flake broadcast systems. This self-priming epoxy resin allows for a fast turnaround flooring system sealed with a clear and/or UV stable topcoat. Depending on specific service requirements, three ranges of performance are available (Standard, Medium, and Heavy Duty).

WHERE TO USE

- Restaurants and cafeterias
- Hospitals and healthcare facilities
- Laboratories and clinics
- Educational buildings
- Lobbies, showrooms, and public spaces
- Retail and commercial spaces
- Residential parking garages
- Walkways, corridors, and restrooms

ADVANTAGES

- Rapidly installed decorative seamless floor
- Chemical, impact, and abrasion resistant
- Durable, seamless, and easy to maintain
- Low odor and VOC – LEED compliant
- Optional integral cove base
- Meets USDA, FDA, OSHA criteria

SYSTEM COMPONENTS

MiraFlor Chip Binder – Broadcast Coat & Lock/Seal Coat
MiraFlor Colorflake (1/4" and 1/8") - Broadcast Media
MiraFlor CQ Clear (Standard Duty) Lock/Seal Coat
MiraFlor Glazetop (Medium Duty) Lock/Seal Coat
MiraThane MCU (Heavy Duty) Finish Coat

THEORETICAL COVERAGE RATES

Primer Coat (not required)
Receiver Coat.....160 sq. ft. per gal @ 10 mils
100% Broadcast (1/4" – 1/8")12 lbs. – 15 lbs. per sq. ft.
Random Broadcast (1/4")04 lbs. per sq. ft.
Lock/Seal Coats: Refer to Individual Product Data Sheets
MiraFlor CQ Clear – Standard Duty
MiraFlor Glazetop – Medium and Heavy Duty
MiraThane MCU – Heavy Duty

PACKAGING and COLORS

MiraFlor Chip Binder 2 Gal, 4 Gal, 20 Gal Kits
Vinyl Flake - 50-pound and 40-pound boxes
Available in 12 Standard Blends, 1/4" and 1/8" chip sizes

MIX RATIO

Component 'A': Component 'B' = 3:1 by volume.
See Installation Guide for specific components and mix ratios.

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)

Compressive Strength ASTM D695.....	9,000 psi (Resin Components)
Tensile Strength ASTM D638	4,400 psi (Resin components)
Elongation ASTM D638.....	19.6% (Resin components)
Surface Hardness ASTM D2240 Shore D	75 to 80
Indentation Characteristics	
(Steadily Applied Load) MIL-D-3134, Para. 4.7.4.2.1 0.005" indent (2,000 lbs. on a 1" steel ram imposed for 30 mins concrete substrate)	
Indentation Characteristics	Passes (Impacted Load) MIL-D-3134, Para. 4.7.3 0.011" indent (2 lb. steel ball dropped from 8-ft height)
Adhesion ASTM D4541	>400 psi
Water Absorption MIL-D-3134	Less than 1%
Abrasion Resistance ASTM C501	19 Wear Index (H-22 Wheel)
Microbial Resistance ASTM G21.....	Passes Testing 1

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. Concrete substrates must have a minimum Concrete Surface Profile (CSP) of 3. At time of application, minimum and maximum substrate temperatures must be 50°F and 90°F, respectively.
- **Broadcast Coat** - Apply MiraFlor Chip Binder Epoxy at 225 sq. ft. per gallon with squeegee and backroll or dip and roll technique.
- **Broadcast Vinyl Flakes** - at 12 lbs. per 100 sq. ft., into wet broadcast coat.
- **Remove** excess flakes with floor scraper or lightly sand. Vacuum all excess debris off floor.
- **Lock/Seal Coats: (Refer to Individual Product Data Sheets)**
Standard Duty - Apply MiraFlor CQ Clear Epoxy at 225 sq. ft. per gallon with squeegee and backroll or dip and roll technique.
Medium Duty – Apply MiraFlor Glazetop at 160 – 225 sq. ft. per gallon with squeegee and backroll or dip and roll technique.
Heavy Duty – Apply MiraFlor Glazetop per above, and once cured (6-10 hours) apply MiraThane MCU at 400 sq. ft. per gallon with dip and roll technique.

MiraFlor Chip Binder Epoxy

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FOR BEST RESULTS

- Always install a minimum 4' by 4' test area or job site mock-up for owner approval of acceptable color, texture, finish, adhesion, and any other critical requirement prior to proceeding.
- Literature is occasionally amended when required so it is best practice to verify current versions of product technical data sheets (PTDS), safety data sheets (SDS), and installation guides (IG's) prior to the submittal process. Download at www.miracote.com.
- Always protect materials from excessive heat and cold, and pre-condition to room temperature, as necessary.
- Regularly check wet film thickness with a mil gauge. 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 observation and making recommendations, and do not assume any liability for supervision or quality control.
- Measure substrate temperatures to ensure that material is applied when temperatures are between 50°F (4.5°C) and 90°F (32.2°C) during placement.

LIMITATIONS

- If subsurface cracks due to continued thermal flexing or building settlement, floor may reflect those cracks to some degree.
- Surface on which MiraFlor Flake Full Broadcast is applied should be smooth and level.
- Moisture vapor transmission (MVE) in excess of 3.0 lbs./1000 sq/ft/per 24 hr. period per ASTM F1869, may result in delamination, discoloration, or improper curing. Use Miracote MiraPrime MVERS Plus™ vapor control membrane over substrates, which have MVE emissions that exceed these limits.

LIMITED WARRANTY

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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