



MiraFlor KF

Product Technical Data Sheet

Miracote MiraFlor KF is a trowel/broadcast applied flooring product designed to produce a durable, monolithic floor and base. The complete floor is approximately 1/4" thick and consists of a two component resinous system combined with selected aggregates and fillers. It is resistant to hydrocarbons, vegetable oils, animal fats and a wide range of acids, alkalis and solvents.

ADVANTAGES

- Rapid installations – A Kwik-Flor installation may be placed in service within 24 hours in cases where preparation work is minimal.
- USDA Approved: Monolithic, can incorporate integral cove base. Eliminates unsanitary build-up of bacteria.
- Chemically Resistant – resists a wide range of alkalis, acids, solvents, animal fats, sugar enzymes and other harmful reagents.
- High Impact – Three times the strength of normal concrete.
- Slip-Resistance – A variety of slip-resistance surface textures are available.
- Maintenance – Built to take repeated scrubbing with the harshest detergents and hot and cold flushes.
- Over Tile – May be applied over tile producing a seamless floor free of sanitation problems posed by tile mortar joints.
- Waterproof Membrane optional for waterproofing suspended floors.
- Available through Miracote distributors.

COVERAGE RATES

- MiraPrime C coverage: 250 ft² / mixed gallon, 6.4 mils WFT
- MiraFlor KF Base & Aggregate: 24 ft² / mixed gallon w aggregate
- Grout coat: 120 ft² / mixed gallon: 13.4 mils WFT
- MiraFlor CR: 200 ft² / mixed gallon: 8 mils WFT

PACKAGING and COLORS

MiraFlor KF Resin - Kit Sizes: 0.86 gal, 4 gal and 20 gal.

Aggregate: 60 lb bag

MiraFlor KF Grout - Kit Sizes: 0.68 gal, 2.9 gal and 3.75 gal.

MIX RATIO

- MiraPrime C: 2 parts A Comp. : 1 part B Comp.
- MiraFlor KF Base & Aggregate:
3 parts A Comp. : 1 part B Comp :
1 60-lb. bag of Aggregate
- Grout coat: 2 parts A Comp. : 1 part B Comp
- MiraFlor CR: 2 parts A Comp. : 1 part B Comp

SHELF LIFE AND STORAGE

Shelf life will be one year from the date of manufacture as long as containers remain unopened and when material is store in a protected environment that is free from moisture, excessive heat and freezing temperatures, and direct sunlight.

WHERE TO USE

Floors for industrial use including manufacturing plants, research facilities, machine shops, meatpacking and food processing areas, commercial kitchens, washrooms, etc.

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

Compressive Strength ASTM C306.....	10,000 psi
(2" x 2" cubes)	
Resistance to Heavy Rolling Load	
CPCTS – 39T	
(55# Steel Caster 1,000 Cycles)	Passes
Surface Hardness Shore D.....	77
Indentation Characteristics	
MIL-D-3134	
(Steadily Applied Load)	Less than 0.50%
Indentation Characteristics	
(Impacted Load) CPCTS-3-69T	77°F 0.50%
	158°F 1.70%
Adhesion MIL-D-3134.....	1,000
Tensile Strength ASTM D638	2,350 psi
Flame Spread Index ASTM E162	5.02
Abrasion Resistance ASTM C501	Wear Index 76
Water Absorption	77°F..... 0.65%
	158°F..... 1.60%

FOR BEST RESULTS

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 current versions of product technical data sheets (PTDS), material safety data sheets (MSDS), and installation guides (IG) at www.miracote.com.

Protect materials from excessive heat and cold and regularly check wet film thickness with mil gauge and monitor consumption to ensure correct application thicknesses and rate are obtained.

OVERVIEW OF INSTALLATION STEPS

- **Surface Preparation** - Concrete must be cleaned of foreign matter, grease, oil, laitance and concrete curing compounds by whatever means necessary (shotblasting, acid etching, etc.) to insure a good bond. Consult Crossfield for preparation of other surfaces.
- **Primer** - Brush or trowel MiraPrime C primer to the prepared surface.
- **Basecoat** - Trowel apply MiraFlor KF resin and aggregate mixture to a nominal 1/4". Compact the aggregate by hand or power – troweling until a smooth, dense surface is achieved.
- **Grout and Sealer (Optional/Recommended)** - If maximum clean-ability is desired, a grout and seal coat may be applied. Squeegee or scrape-trowel MiraFlor KF Grout to fill voids in the basecoat and broadcast the desired slip-resistant aggregate. Roller apply two coats of MiraFlor KF Sealer.

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LIMITATIONS

- Irritating to some persons working with materials. Proper ventilation and prescribed personal hygiene standards must be practiced.
- Application conditions usually require temperatures in excess of 55°F during application and for 24 hours thereafter.
- If sub-surface cracks due to continued thermal flexing or building settlement, Kwik-Flor may reflect those cracks to some degree.

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 vapor control membrane over substrates, which have MVE emissions that exceed these limits. Consult with Crossfield prior to using MiraPrime MVERS if moisture vapor transmission exceeds 15 lbs/1000 sq/ft/per 24 hr period per ASTM F1869.

PRODUCT AVAILABILITY

Crossfield Products Corp. Miracote maintains offices and factories at addresses listed below. Miracote products are available for purchase through reputable distribution in the building trades.

MAINTENANCE

For maximum sheen and cleanability, floor should be routinely treated with conventional maintenance finish followed by ordinary buffing.

SPECIFICATION ASSISTANCE

Consult Crossfield Products Corp. for specification assistance, detailing, etc. This consultation is highly recommended prior to specification.

SLIP RESISTANCE and CLEANABILITY

In general, the more aggressive the finished surface the greater the coefficient of friction and corresponding slip resistance, the more difficult to clean. The smoother the finished texture the easier the surface is to clean, but there is a loss of skid resistant properties.

CHEMICAL RESISTANCE

See Crossfield Products Corp's. Chemical Resistance Guidelines for chemical resistance of a product or system, as well as the types of test performed:

- ASTM C868 Standard Test Method for Chemical Resistance of Protective Lining.
- ASTM C267 Standard Test Method for Chemical Resistance of Mortars, Grouts, and Monolithic Surfacing and Polymer Concretes.
- ASTM D1308 Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes.
- Crossfield Products Corp. Proprietary Testing.

Note: Chemical resistance is a functional test usually limited to changes in weight or thickness measured in loss or gains and does not evaluate subject aesthetic issues. To determine aesthetic issues, Crossfield recommends testing the products or system in accordance with intended end use.

CLEANING

Cleaning and disinfecting compounds and cleaning techniques can affect the color, gloss, texture and performance of the system. As a precautionary step, Crossfield recommends that the end-user test their cleaning and disinfecting compounds on a sample or on a small, out of the way finished area, utilizing the intended cleaning technique prior to cleaning the entire surface area. If no deleterious effects are observed, the procedure can be continued. If the cleaning and disinfecting compounds or cleaning techniques damage the system, modification of the cleaning material or techniques will be required. Contact your Representative for additional information.

TESTING

The technical data contained herein is the result of tests made in Crossfield's laboratories or in independent laboratories using small scale equipment, following generally accepted trade practices. Although this information is believed to be true and accurate, the use of different equipment for testing under dissimilar conditions or the testing of samples produced under dissimilar conditions may develop substantially different results.

LIMITED WARRANTY

NO WARRANTY SHALL BE EFFECTIVE UNTIL THE TERMS AND CONDITIONS OF SALE SET FORTH IN CROSSFIELD PRODUCTS CORP. INVOICES ARE MET.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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