



MiraFlex BRF-NR

Product Technical Data Sheet

Miracote MiraFlex BRF-NR Flooring is a medium duty, multi-layered, trowel-applied waterproof flooring system designed for use in upper level mechanical equipment rooms above occupied spaces.

The material is applied in individually troweled layers which subsequently forms an elastic latex waterproof membrane, an integral waterproof base turned up at walls and equipment pads, and a durable finished floor.

MiraFlex BRF-NR Flooring system components consist of liquid rubber latex polymers incorporating dehydrating powders, vulcanizers and special aggregates. The waterproof membrane and base consist of an elastomeric fluid-applied synthetic rubber. The finish coat application consists of a pigmented self-crosslinking acrylic protective coating.

The product is designed for application over new or existing concrete and masonry surfaces. Separate specifications are available for wood or plywood surfaces – consult Crossfield Products Corp. Miracote. MiraFlex BRF-NR Flooring components are entirely water-based and contain no hydrocarbon solvents. They have no toxic odor during application, are not flammable, and are environmentally safe.

The approximate thickness of Miracote MiraFlex BRF-N Flooring is 3/32” (2.38 mm). It is available in a range of 15 standard colors. Request Crossfield Products Corp. Design Guide 6 (“Design Ideas for Waterproofing a Mechanical Equipment Room”) for detailing information

ADVANTAGES

- Forms a monolithic, tightly adhered, molded waterproofing system across mechanical equipment room floors, pads and transitions.
- Can be applied over new and existing surfaces.
- Environmentally safe with no toxic odor or flammable hazard during system installation.
- Installed by factory trained Miracote contractors.
- Available locally through independent Miracote distributors.

COVERAGE RATES

Refer to Installation Guides, or individual data sheets for MiraFlex Membrane A, Miracote MPC and MiraGard Colorbond XL.

PACKAGING and COLORS

Refer to Installation Guides, or individual data sheets for MiraFlex Membrane A, Miracote MPC and MiraGard Colorbond XL.

MIX RATIO

Refer to Installation Guides, or individual data sheets for MiraFlex Membrane A, Miracote MPC and MiraGard Colorbond XL.

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.

WHERE TO USE

- Mechanical equipment rooms.
- Boiler room floors.
- Air conditioning rooms
- Raised access flooring.
- Plenums and similar spaces where water spillage and leakage may occur in adjacent spaces.

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

Waterproofness

Smith-Emery Laboratories Test procedure (Sample 18” diam. Subjected to 50 lbs. per inch water pressure for 60 mins. Test for amount of water forced through in grams) None

Tensile Strength & Elongation ASTM D1117

Elongation Dry85.0%
Break load Dry.....79 lbs per inch
Elongation Wet.....115.0%
Break load Wet.....50 lbs per inch

Strip Adhesion

Strip adhesion measured in per linear inch force required to pull up membrane19.2 tbs. per inch

Indentation Characteristics MIL-D-3134, Para. 4.7.4.2.1

(Steadily Applied Load).....Less than 5%
(2000 lbs. on 1” steel ram imposed for 30 mins)

Indentation Characteristics MIL-D-3134, Para 4.7.4

(Impacted Load)No cracking or Loosening
(2 Steel ball dropped from 8 ft height)

Resistance to Elevated Temperatures

MIL-D-3134, Para. 4.7.5.1No flow or slip

Slip-Resistance (Coefficient of Friction)

Varies depending upon surface texture selected

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 requirements prior to proceeding with the installation.
- Verify that the most current versions of product technical data sheets (PTDS), color charts, material safety data sheets (MSDS), and installation guidelines (IG) are being utilized for project submittals and application reference.
- Protect materials at all times from excessive heat and cold.
- 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. Supervision and quality control are the sole responsibility of the user.

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- Measure surface and ambient temperatures to ensure that material is only applied when temperatures are 40 F (4.5 C) and rising during placement and cure time.

OVERVIEW OF INSTALLATION STEPS

- Mechanically prepare surfaces by removal of laitance, grease, and all foreign matter that may inhibit adhesion.
- Apply Miracote Waterproof Membrane and cove base.
- Trowel apply flooring coat to thickness required to smooth off lags, butts and joints.
- Roller apply two coats of pigmented final finish dressing in texture as selected.

LIMITATIONS

- Floor finish of system subject to damage by abuse from sharp, heavy objects.

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.

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.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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MIR.230-NR
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04-15-2013