M-E Flooring NR

Waterproofing Mechanical Equipment Room Floor System

1. PRODUCT DESCRIPTION
   A. COMPOSITION
   M-E Flooring NR is a medium-duty multi-layered troweled applied floor designed for use as a waterproof flooring system for mechanical equipment rooms above occupied areas.

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

   M-E Flooring NR components are combinations of liquid rubber latex polymers incorporating dehydrating powders, vulcanizers and special aggregates. The waterproof membrane and waterproof base are an elastomeric synthetic rubber. Finishcoat consist of a pigmented acrylic topping.

   The product is designed for application over new or existing concrete or masonry surfaces. Separate specifications are available for wood or plywood surfaces-consult Crossfield.

   M-E Flooring NR 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 M-E Flooring NR is 3/32” nominal (84.33 mm). It is available in a range of standard colors and custom colors.

   B. TYPICAL USES
   As combination waterproofing and floor finish for mechanical equipment rooms, air conditioning rooms, plenums and similar spaces subject to leakage through inadvertent water spillage.

   C. ADVANTAGES AND LIMITATIONS
   ADVANTAGES:
   1. Forms a monolithic, tightly adhering, molded waterproof system across floors and up bases, curbs, equipment pads and up pipe sleeves.
   2. Can be applied over new or existing surfaces.
   3. Environmentally safe. No toxic odor or flammable hazard during installation.
   4. Installed only by Professional Factory Trained Dex-O-Tex Contractors.

   LIMITATIONS:
   1. Floor finish of system subject to damage by abusive damage from sharp, heavy objects.
   2. Moisture vapor emission rates (MVER) in excess of 3.0 lbs./1000 sq. ft./per 24 hour period per ASTM F1869, or an rh in excess of 78% per ASTM F2170 may result in delamination, discoloration or improper curing without proper treatment prior to installation of the flooring system. Consult with Crossfield Products Corp. for specific recommendations.

   3. Vapor control primers, sloping, smoothing or leveling compounds, crack repair or isolation, waterproof membranes or other supplementary items may be required for proper installation at an additional cost. Consult with Crossfield Products Corp. for specific recommendations.

2. TYPICAL PHYSICAL PROPERTIES at 75°F (24°C)
   A. 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.)

   B. Tensile Strength & Elongation ASTM D1117-01
   Elongation Dry .................................................. 85.0%
   Breakload Dry .................................................. 79 lbs per inch
   Elongation Wet .................................................. 115.0%
   Breakload Wet .................................................. 50 lbs per inch

   C. Strip Adhesion
   Strip adhesion measured in per linear inch force required to pull up membrane................................ 19.2 lbs. per inch

   D. Indentation Characteristics MIL-D-3134, Para. 4.7.3
   (Steadily Applied Load)
   (2000 lbs. on 1” steel ram imposed for 30 minutes)

   E. Indentation Characteristics MIL-D-3134, Para. 4.7.3
   (Impacted Load 2 lb. Steel ball dropped from 8 foot height)
   No cracking or loosening

   F. Resistance to Elevated Temperatures
   MIL-D-3134, Para. 4.7.5.1................................. No flow or Slip

   G. Skid Resistance (Coefficient of Friction)
   Varies depending upon surface texture selected.

3. OVERVIEW OF INSTALLATION STEPS
   A. Prepare surfaces by removal of laitance, grease, foreign matter.
   B. Apply Dex-O-Tex Waterproof Membrane and cove base.
   C. Trowel apply flooring coat to thickness required to smooth off laps, butts and joints.
   D. Roller apply two coats of pigmented final finish dressing in texture as selected.

4. PRODUCT AVAILABILITY
   Crossfield Products Corp. maintains offices and/or factories at all addresses listed below. Factory Trained Contractors are established in all major trading areas in the United States, Canada and various European, Latin American and Far East nations.

5. SKID RESISTANCE and CLEANABILITY
   In general, the more aggressive the finished surface the greater the coefficient of friction and corresponding skid 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.
6. 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.

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

8. 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:
- Crossfield Products Corp. Proprietary Testing.

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

9. 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. INVOICE ARE MET.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.

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