

System Description Sheet

Waterproofing Mechanical Equipment Room Floor System

1. PRODUCT DESCRIPTION

A. COMPOSITION

M-E Flooring is a 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 components are combinations of liquid rubber latex polymers incorporating dehydrating powders, vulcanizers and special aggregates. The waterproof membrane and waterproof base are reinforced with an embedded polypropylene mesh fabric. 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 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 is 1/8" (3.17 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..... 29.0%
Breakload Dry..... 106 lbs per inch
Elongation Wet 31.0%
Breakload Wet 67 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) < 5%

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 Fabric reinforced Waterproof Membrane.
- 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.

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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:

- 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 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.

Crossfield Products Corp. warrants to the purchaser of its products that such products are free from manufacturing defect. Crossfield does not warrant or guarantee the workmanship performed by any person or firm installing its products. Crossfield's obligation under this warranty is limited solely to the original purchaser and solely to the remedy of replacement in kind of any product which Crossfield sold which may prove defective in manufacture within one year from date of installation, provided said product was stored correctly and installed within the product's shelf life, by the original purchaser and which Crossfield examination shall disclose to Crossfield's satisfaction to be thus defective.

IN NO EVENT SHALL CROSSFIELD PRODUCTS CORP. BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. THIS WARRANTY IS EXPRESSLY GIVEN IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE AND ALL OTHER OBLIGATIONS OR LIABILITIES ON CROSSFIELD'S PART, AND WE NEITHER ASSUME NOR AUTHORIZE ANY PERSON OR PERSONS TO ASSUME FOR US ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF A CROSSFIELD PRODUCT. THIS WARRANTY SHALL NOT APPLY TO ANY OF CROSSFIELD'S PRODUCTS, WHICH HAVE BEEN SUBJECT TO ADULTERATION, ALTERATION, ABUSE OR MISUSE. CROSSFIELD PRODUCTS CORP. MAKES NO WARRANTY WHATSOEVER IN RESPECT TO ACCESSORIES, PARTS OR MATERIALS NOT SUPPLIED BY CROSSFIELD PRODUCTS CORP., WHICH ARE USED IN CONNECTION WITH ITS PRODUCTS. THE TERM "ORIGINAL PURCHASER" IN THIS WARRANTY MEANS THAT PERSON, CORPORATION OR ENTITY TO WHOM CROSSFIELD PRODUCTS CORP. SOLD ITS PRODUCT OR PRODUCTS. ANY ACTION TO ENFORCE ANY WARRANTY OR FOR BREACH OF CONTRACT OR ARISING OUT OF ANY CLAIM AGAINST CROSSFIELD PRODUCTS CORP. SHALL BE COMMENCED AND MAINTAINED ONLY IN A COURT OF COMPETENT JURISDICTION IN THE CONTINENTAL UNITED STATES OF AMERICA. THE PURCHASER ACCEPTS THESE TERMS AND CONDITIONS, AND HEREBY EXPRESSLY WAIVES ANY CLAIM TO ADDITIONAL DAMAGES.

CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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