



# PRODUCT DATA

## MICOROX® FLOORLIFE M-R FLOORING

MICOROX® FLOORLIFE M-R is a multi-layered 100% solids flooring system with a waterproofing membrane designed for use in mechanical penthouses, air conditioner rooms and other areas that may be subject to leakage due to spills or condensation.

### PRODUCT DESCRIPTION

MICOROXr® FLOORLIFE M-R is a 1/16 inch to 3/32 inch epoxy flooring system which can be roller or slurry applied. Components are:

**MICOROTHANE 6-75 ELASTOMERIC PRIMER:**  
A two-part deep-penetrating waterproofing membrane.

**FLOORLIFE M-R BASE COAT:** A two-component system of epoxy resin and curing agent into which aggregate is broadcast. Also a slurry system of liquids and aggregate which can be trowelled.

**BADGER 20/40 AGGREGATE:** broadcast or incorporated into liquid layer.

**COATINGS:** MICOROX® 1882 Sealer as Sealer Coat for increased chemical resistant properties.

### OPTIONS:

**MICOROTHANE 6-23** non-yellowing 2 Part urethane sealer for increased resistance to abrasion and wear.

MICOROX® FLOORLIFE M-R bonds to most existing surfaces. Substrate must be exposed by acid-etch or mechanical means for secure bond. Ideal for restoring old floors and protecting new floors. See installation instructions for further details.

### PHYSICAL/CHEMICAL CHARACTERISTICS

<b>Compressive Strength</b> . . . . .	12,400 psi after 7 days (ASTM C-579)
<b>Tensile Strength</b> . . . . .	2,200 psi (ASTM C-307)
<b>Flexural Strength</b> . . . . .	4,800 psi (ASTM-C-580)
<b>Flexural Modulus of Elasticity</b> . . . . .	9.7 x 10 <sup>5</sup> psi (ASTM D-790)
<b>Hardness</b> . . . . .	85-90 (ASTM D-2240/Shore D Durometer)
<b>Bond Strength</b> . . . . .	>400 psi (100% concrete failure) (ACE COMMITTEE #503/PP1139-1141)
<b>Indentation</b> . . . . .	No indentation (MIL-D-3134F)
<b>Abrasion Resistance</b> . . . . .	0.1 g max. weight loss (ASTM D-4060, Taber Abrader) CS-17 wheel, 1,000 gm load, 1,000 cycles)
<b>Flammability</b> . . . . .	Self extinguishing.: Extent of burning 0.25 inches max. (ASTM D-635)
<b>Thermal Coefficient of Linear Expansion</b> (ASTM E-831) . . . . .	3.5 x 10 <sup>-5</sup> C
<b>Water Absorption</b> . . . . .	0.1% (ASTM C-413)
<b>Heat Resistance Limitation:</b>	
For continuous exposure	140° F/60° C
For intermittent spills	200° F/93° C
<b>Cure Rate allow</b> . . . . .	6 hours for foot traffic (at 77°/25°C)
	18 hours for light traffic
	24 hours for normal operations

**Colors** Available in manufacturer's standard colors. Custom colors available upon request.

**MICOROX® FLOORLIFE M-R** liquids are available in 3, 15, and 150 gallon units.

Mix Ratio of liquids is 2 parts Resin to 1 part Hardener, by volume.

**BADGER 20/40 AGGREGATE** is available in 100 pound bags of solid colors as indicated in our color guide or in custom blended variations and combinations to meet your specifications.

**COVERAGE:**(3/32"thickness,double broadcast.)

**Primer: MICOROX® 6-75P Elastomeric:** 300 square feet per gallon per coat.

**Base: MICOROX® M-R Liquids: 70** square feet per gallon, minimum.

**Sealer: MICOROX® 1882 Clear Sealer:** 80 square feet per gallon.

**Aggregates:** .150 pounds per square feet minimum.

#### **PREPARATION:**

Prepare surface in accordance with Floorlife installation instructions. Slabs on or below grade should be over an effective moisture barrier. Clean and prepare the concrete by mechanical means and/or acid-etch until all foreign matter has been removed. A rough surface is desired to provide a good bonding profile.

#### **APPLICATION:**

Floorlife M-R can be applied in two ways. The first is broadcast application. The second is trowel application. Primed floor temperature should be at least 60° F.

#### **TEMPERATURE LIMITATIONS:**

During the installation and cure, surface temperatures of 60° F - 80° F are recommended.

#### **HARDENING AND CURE:**

**MICOROX® FLOORLIFE M-R** hardens for foot traffic in 6 hours at 77° F. Allow 18 hours for light traffic and 24 hours for normal operations depending on temperature and humidity.

#### **PRECAUTIONS:**

Read container labels and Material Safety Data Sheets before using all products. Contact with liquids Part A and B can cause irritation. Wear protective clothing. Cover hands with protective cream and/or gloves. Wear chemical splash goggles. Use only with adequate ventilation.

#### **CLEAN UP:**

Clean up tools immediately after use with hot, soapy water and abrasive pads or mineral spirits.

#### **COMPLEMENTARY DATA:**

See the **MICOROX® DECORATIVE** Installation Guide for more detailed and complete application instructions.

For specific chemical resistance data refer to **FLOORLIFE M-R** Chemical Resistance Guide.

Our full service lab and technical engineers are available to assist you. For complete information on all **MICOROX®** Flooring Systems contact your local **MICOROX®** Dealer or our factory, at 800-284-4308.

**LIMITED WARRANTY:** Micor Company Inc. warrants to the original purchaser of its products that they are in conformance to the formulation standards of Micor Company, Inc. and that such products are free from manufacturing defects. Original purchaser's only remedy is replacement of the product. Micor does not warrant or guarantee the workmanship performed by any person or company installing its products. In no event shall Micor be liable for any incidental or consequential damages. This warranty is expressly given in lieu of all other warranties express or implied, including the warranties of merchantability and fitness for use and all other obligations or liabilities on Micor's part. Micor neither assumes nor authorizes any person or persons to assume for us any other liability in connection with the sale of Micor products. This warranty shall not apply to any of Micor's products which have been subject to alteration, abuse or misuse. Micor makes no warranty whatsoever in respect to parts, materials or accessories not supplied by Micor Co. which are used in connection with its products. The term "original purchaser" in this warranty applies to that person, company or corporation to which Micor Company Inc. sold its product or products. The original purchaser accepts these terms and conditions and hereby expressly waives any claim to additional damages.

**CAUTION: Always keep out of the reach of children.**