

**MICORTHANE™ 9-82** is a clear two component polyurethane coating that provides excellent chemical and abrasion resistance combined with superior wearability and color retention. Its rapid cure and property development make it an excellent choice for interior and exterior maintenance applications on concrete, metal or wood. **MICORTHANE™ 9-82** is recommended as an architectural coating, a heavy duty industrial maintenance coating, a coating for water treatment facilities and food processing facilities, as well as a host of other applications where corrosion and abrasion resistance and superior protection are important. U.S.D.A. approved for incidental food contact.

### PRODUCT DESCRIPTION:

**MICORTHANE™ 9-82** is a cost effective, two component polyurethane used to provide excellent corrosion and abrasion resistance to concrete, metal and wood.. Offers outstanding exterior durability. **Recommended for use with skid resistant and textured surface flooring systems only.**

### APPLICATIONS:

Use **MICORTHANE™ 9-82** as a stand alone sealer with our **MICOROX® 103 PRIMER**, or as a top coat over our **MICOROX® FLOORLIFE** trowelled or slurry flooring systems to provide high gloss, ultra violet light protection, and additional chemical, abrasion and wear resistance.

**PACKAGING:** **MICORTHANE™ 9-82** is packaged in pre-proportioned units. Our TwoGallon Kit contains: 1 each 1 Gallon Can Resin and 1 each Gallon Can Hardener.

NOTE: The mixing ratio is 1 to 1 by volume.

### FEATURES:

- Outstanding abrasion and corrosion resistance
- Outstanding exterior durability
- Ultra violet ray protection
- Fast cure time
- U.S.D.A. approved for incidental food contact
- Adheres to concrete, metal and wood

### PHYSICAL /CHEMICAL CHARACTERISTICS:

<u>PROPERTIES:</u>	<u>9-82 RESIN</u>	<u>9-82 HARDENER</u>
Flash Point	116° F	91° F
Weight per Gallon	9.05 lbs.	8.54 lbs.
% N.V.W.	48.4	51.50
% N.V.V.	41.1	46.3
Viscosity	380 cps	56 cp
V.O.C.	560 g/l	497 g/l

### MIXED PROPERTIES:

Mixing Ratio (A to B)	1 to 1 by volume
Coverage	250 to 350 sq. ft. per gallon
Thickness	2.5 mils dry
Pot Life	35 - 45 minutes
Weight per gallon	8.79 lbs
Viscosity	120 cps at 77° F
Tack Free Time	3.0 - 3.5 hrs. at 77° F
Recoat Time	8 - 10 hrs. at 77° F
Service Time	24 Hours
%N.V.W.	50.0
%N.V.V.	43.8
V.O.C.	528 g/l
Colors	Clear (For pigmented colors see 6-23)

### CURED PROPERTIES:

60% Gloss	92
Pencil Hardness	3H
Tensile Strength	5,200 psi
% Elongation	6.0%
Abrasion Resistance	49.4 mg loss
Taber CS - 17	1,000 cycles, 1000 mg.
Florida Weathering	10% Gloss loss 6 months
Impact Resist. Forward	50 inch - lbs
Impact Resist Reverse	10 inch - lbs
Flexibility	3/8" conical mandrel
Moisture Resistance	Excellent

### **CHEMICAL RESISTANCE:**

<u>Test Solution (Spot Test)</u>	<u>Results</u>	<u>Result Ratings</u>
Acetic Acid 10%	5	5 = Outstanding, no effect
Acetone	5	4 = Very Good, very slight softening
Citric Acid 10%	5	3 = Good, slight softening
Hydrochloric Acid 10%	5	2 = Fair, moderate softening
Iodine	5	1 = Poor, severe softening
Isopropyl Alcohol	5	
JP-4 Fuel	5	
Methylene Chloride	2	
MIBK	5	
MEK	5	
Nitric Acid 10%	5	
Phosphoric Acid 10%	5	
Toluene	5	
Xylene	5	

Spot tests may not be a true indication of the chemical resistance of a coating. Variations in concentration and time of exposure can give results which are substantially different from those predicted by a spot test.

<u>Test Solution ( Immersion Test)</u>	<u>Results</u>
Hydrochloric Acid 37%	2
Hydrochloric Acid 20%	3
Sulfuric Acid 50%	5
Acetic Acid 100%	3
Acetic Acid 50%	3
Nitric Acid 20%	3
Aniline	3
NaOH 50%	5

### **APPLICATION INSTRUCTIONS:**

**IMPORTANT! - DO NOT USE THIS PRODUCT UNTIL MATERIAL SAFETY DATA SHEET IS READ AND UNDERSTOOD.**

### **SURFACE PREPARATION:**

Preparation is the most important part of any installation. Be sure that the surface to be coated is dry, clean, sound and free of grease, oil, old coatings, concrete curing compounds, dust and any other foreign material which may inhibit adhesion, by acid etching or mechanical means.

### **TEMPERATURE LIMITATIONS:**

During installation and cure the surface temperatures between 60°F - 90°F are recommended.. The material should be at room temperature, as well. Lower temperatures will greatly increase the cure time.

### **MIXING & APPLICATION:**

- 1) Insure that the surface to be coated is clean, sound and free of grease, oil and old coatings.
- 2) **READ AND UNDERSTAND ALL LABEL WARNINGS AND THE MATERIAL SAFETY DATA SHEETS.**
- 3) **Remove ignition sources from work and insure adequate ventilation.**
- 4) Make sure that the area of application is well ventilated and that the air will not vent into any other occupied area.
- 5) Pour equal volumes of Resin and Hardener into a container and mix for 2 - 3 minutes until a uniform blend is achieved.
- 6) Application of a thin coat using a brush or roller. **DO NOT ALLOW MATERIAL TO PUDDLE.**

**MICORTHANE™ 9-82** is not designed to provide a perfectly smooth finish.

### **HANDLING PRECAUTIONS:**

**MICORTHANE™ 9-82** is intended for industrial and commercial use only. Prolonged contact with skin can cause irritation. **WEAR PROTECTIVE CLOTHING AND CHEMICAL SPLASH GOGGLES TO AVOID EYE CONTACT.** Wear a respirator rated for organic solvents when applying this product in poorly ventilated areas. Make sure that you have proper ventilation. **FLAMMABLE!! REMOVE ALL SOURCES OF IGNITION BEFORE USING.**

### **COMPLIMENTARY INFORMATION:**

Our full service lab and technical engineers are available to assist you. For complete information on all systems, contact your local Dealer or our factory at 1-800-284-4308.

**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.