

## Micorox<sup>®</sup> Deep Pour Precision Non-Shrink, Epoxy Grout

### PRODUCT DESCRIPTION

**MICOROX<sup>®</sup> DEEP POUR PRECISION NON-SHRINK EPOXY GROUT** is a high strength, expansive, precision non-shrink, epoxy grout, designed for use on all precision machines and equipment. With the Longest pot life in the industry and fast setting along with exceptional flowing characteristics makes it ideal for large applications. Engineers specify this grout because of its reliable effective bearing capacity (over 98%).

### USES

- Vibrating Equipment
- Crane Rails
- Marine Equipment
- Dynamic Loading Applications
- Mining Equipment
- Chemical Tanks and vessels
- All precision Machines & Equipment
- Grouting Anchors, Dowels, Rebar, Rock Bolts

### FEATURES

- >98% effective Bearing Capacity
- Qualifies under ASTM 1107 for precision Grouting Applications
- Superior Adhesion to concrete & Steel
- Deep pour up to 12 inches per lift
- Longest Pot life in the Industry
- High early Strength Development

### PHYSICAL PROPERTIES (7 DAY CURE AT 77°F (24°C))

<b>COMPRESSIVE STRENGTH</b>	ASTM D-695	(18 HOURS) (7DAYS)	9,700 psi, (66.89 MPa) 18,600 psi, (128.25MPa)
<b>COMPRESSIVE MODULUS</b>	ASTM C-579-82		3.62 x 10 <sup>5</sup> psi
<b>TENSILE STRENGTH</b>	ASTM C-307-83		1,950 psi, (13.44 MPa)
<b>FLEXURAL STRENGTH</b>	ASTM C-580-74		3,750 psi (25.86 MPa)
<b>HEIGHT CHANGE (SHRINKAGE)</b>	ASTM C-827		0% shrinkage, <2% expansion
<b>PRECISION GROUT QUALIFICATION</b>	ASTM 1107		passes grades A&B
<b>LINEAR COEFFICIENT OF EXPANSION</b>	ASTM D-296-70		2.0 x 10 <sup>-5</sup> in./in./° F (32 x 10 <sup>-6</sup> mm/mm/° C)

### PACKAGING, COLORS, CURE SCHEDULE, SHELF LIFE, YIELD

#### PACKAGING

The Engineered system consists of:

#### 1 BAG UNIT (0.44 CUBIC FEET)

One partially filled Can of Part A Resin, one partially filled Can of Part B Hardener and 1-50 lb (25 kg) bag of Part C aggregate.

#### 5 BAG UNIT (2 CUBIC FEET)

One partially filled Pail of Part A Resin, One partially filled plastic Jug of Part B Hardener and 5 – 50 lb. bags (25 kg. each) Of Part C Aggregate.

The pre-proportioned engineered units eliminate the need for measuring.

Important: Mix complete units only

#### COLORS

Red, Gray, Black, Amber

#### CURE SCHEDULE

Each unit has 35 minutes of working time @77°F (25°C)

18 HOURS 9,700 psi (66.88 MPa)  
7 days 18,600 psi (128.24 MPa)

#### SHELF LIFE

2 years in unopened containers

#### YIELD

1 Bag Unit (0.44 cu. ft., .0125 cubic meters)  
5 bag Unit ( 2 cu. ft., .0566 cubic meters)

## PREPARATION

### STEEL

Remove all loose scale, rust, grease, oil and other contaminants. SSPC-SP6 guidelines are recommended, with a minimum grey metal or better finish for optimal adhesion of the grout.

### CONCRETE

Remove all grease, oil, laitance and loose weak material to produce a clean sound profile. Concrete must be dry before application of grout.

### FORMS

Pour from the shortest distance of the equipment or machine to be grouted. The form on the pour side should not be greater than 6 inches from the sole (base plate) to support the head box. All other sides can be 1-2 inches out from the sole (base plate). All forms must be secure to withstand the forces generated during the pour of the grout and water tight to avoid loss of grout during and after pour. Coat the inside of all forms with wax or plastic sheeting to be a bond breaker between the grout and form. If equipment or machine to be grouted is larger than 10 feet by 10 feet, it is recommended that an isolation joint be placed every three to four feet apart to facilitate a controlled pour, ensuring a complete fill before the grout flow time expires (30-35 minutes after mixing @ 77°F (25°C), less at higher temperatures).

### MIXING

**IMPORTANT:** When the pour begins, have the next batch of mixed grout ready to achieve a continuous pour, to avoid flow stoppage.

Pour Part B into part A and mix with a SLOW speed drill (300-500 rpm) for one to two minutes or until there are no streaks and completely blended. Immediately pour the mixed A & B into a suitable size mortar mixer and slowly add the Part C aggregate. Mix until no dry spots appear. **NOTE:** pre conditioning the Part A, Part B & Part C to 70°F (25°C) will ensure fast mixing; colder temperatures will make the resin and hardener more difficult to mix, warmer temperatures will shorten the working time. If temperature is over 90°F (32°C) do not store or mix in direct sunlight, keep in a shaded area. Always keep material dry. Protect the area to be grouted from rain and direct sunlight if temperatures are over 90°F (32°C).

### APPLICATION

Pour or pump the mixed grout into the head box and keep half full at all times to ensure the leading edge has a continuous flow. Continue to fill until grout reaches the sole (base plate).

**DO NOT FILL GROUT ABOVE THE BOTTOM OF THE BASE PLATE**

Forms may be removed as soon as the material is hard. Allow the material to cure for 24 hours @ 77°F (25°C) before placing into service. Cure time will be longer at lower temperatures.

### LIMITATIONS

- Do not store material below 60°F (15°C) as crystallization may occur
- Do not store material in direct sunlight if temperature is over 90°F (32°C)
- New concrete should be cured 30 days before applying grout
- No other products or additives should be added to grout to increase flow especially solvents
- If the operating temperatures of the equipment to be grouted will be over 170°F (76°C) do not apply grout
- Minimum clearance under equipment to be grouted is 1 inch (25 mm)

### CAUTION

This product may cause skin irritation, do not inhale vapors, do not take internally, provide adequate ventilation, wear NIOSH approved respirator, protective clothing, eye protection, chemical resistant gloves, in case of contact with eyes, flush with water repeatedly and contact doctor immediately. Before using this product read and understand the Material Safety Data Sheet (MSDS) for this product. For specific questions related to this Data sheet contact our office 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 test standards of Micor Company Inc., and ASTM test procedures and that such products are free from manufacturing defects. Original purchaser only remedy is replacement of material. 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 given in lieu of any other warranties either 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 Company 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. has 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 THIS PRODUCT OUT OF THE REACH OF CHILDREN**