

# TECHNICAL INFORMATION

## EPOXIES

### PRODUCT NAME

**Denepox Mortar-Loc**  
Two Component Epoxy

### MANUFACTURER

De Neef Construction Chemicals, Inc.  
5610 Brystone  
Houston, TX 77041  
1(800) 732-0166

### PRODUCT DESCRIPTION

**Denepox Mortar-Loc** is a two-component, 100% solids, low modulus, moisture insensitive, epoxy system designed for use as a binder in epoxy mortars. It accepts 5-6 times its own volume of dry sand. This product meets ASTM C-881, Type III, Grade 1, Class: B & C.

### APPROPRIATE APPLICATIONS

Repairing or resurfacing concrete  
Bonding materials to hardened concrete

### ADVANTAGES

- Simple 1:1 mix ratio
- 100% Solids
- No Shrinkage
- Moisture Insensitive
- Impact Resistant
- High Strength
- Stress Relieving
- Chemical Resistant

### PACKAGING

Available in 2 and 10 gallon units

### LIMITATIONS

Application at ambient temperature below 40°F is not recommended. Exposure to temperatures exceeding 150°F for prolonged periods is not recommended.

### TYPICAL PROPERTIES

	<b>PART A</b>	<b>PART B</b>
Solids	100%	100%
Color	Clear	Clear
Wt./Gal.	9.7 lb.	8.1 lb.
Shelf Life	1 year	1 year
	<b>PROPERTIES</b>	<b>ASTM METHOD</b>
Mix Ratio	1:1 by volume (A:B)	N/A
Viscosity	1,600 cps	Brookfield
Pot life (3 oz.) @ 77°F	38 minutes	N/A
Hardness (shore) @ 77°F	65-D	D-2240
Gel Time (5 mil) @ 77°F	6-8 hours	N/A
Tensile Strength	5,000 psi	D-638
Flexural Strength	4,500 psi	D-790
Compressive Strength	6,500 psi	D-695
Bond Strength	1,600 psi dry (2 days)	C-321
Bond Strength	1,500 psi	C-882
Elongation	35%	D-638
Water Absorption	0.35% (24 hours)	N/A
Shrinkage	Passes	C-883
Thermal Compatibility	Passes	C-884

The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.

### SURFACE PREPARATION

Surface of application should be clean and sound. The surface must be free of dust, oil, grease, laitance, curing compounds, or any other contaminants. It may be dry, damp or wet, but must be free of standing water. The very best results are obtained on dry concrete. Do NOT apply on surfaces that have been sealed with a permanent type of form oil, curing compound or release agent. Remove these substances before application. Hairline cracks or other defects should be opened by using amasonry saw to provide a 1/4" X 1/4" groove.

Clean the crack and adjacent area of any loosely adhering material. All steel surfaces must be wire brushed or sandblasted to remove previous coatings, rust or mill scab. Surface preparation should be limited to those areas that can be coated promptly, before rust has a chance to reform. On new concrete surfaces, remove laitance and unbonded cement particles by acid etching. Dampen the surface with tap water. Dilute muriatic acid to a 10% solution. ALWAYS add the acid to the water. Scrub the acid/water solution onto the surface at the rate of 50 square feet per gallon. Allow the solution to sit for 20 minutes or when the acid bubbling stops. Scrub and flush thoroughly with clean water. Remove water by squeegee, vacuum or broom. Allow the surface to air dry. **Please note: If the use of muriatic acid is prohibited, check with De Neef Construction Chemicals, Inc for substitute etching solutions. Concrete must have cured for a minimum of 28 days before applying Mortar-Loc.** Refer to De Neef Surface Preparation Guidelines for more details.

## **INSTALLATION PROCEDURES**

**Mixing Procedure** - Stir each component separately. Mix 1 part A with 1 part B by volume into a clean mixing container. Mix the epoxy with a slow speed drill with a mixing paddle attachment. Carefully scrape the sides and bottom of the pail during mixing with a paint stirring stick. Blend for 3 minutes. When preparing mortar/grout, add up to six parts of clean, dry bagged aggregate by volume. Mix only the amount of material that can be used within the pot life. **Please note: Large batches of epoxy will cure much faster than small batches. Mixed epoxy will cure much faster in hot weather than in cold weather.**

**Application** - Use some of the unfilled, neat mortar to coat all concrete surfaces that will receive the filled mortar. Use a brush for this application. Then, fill the cavity with sand filled mortar and pack it tightly. Smooth with a trowel until perfectly level.

**Clean-Up** - Remove uncured **Mortar-Loc** from tools and equipment with a suitable solvent such as xylene or toluene immediately after use. Cured material may only be removed mechanically.

## **STORAGE & HANDLING**

**Shelf Life:** A minimum of 1 year in original, unopened container.

**Storage:** Store in a dry area, between 40°F and 95°F. Protect from direct sunlight.

## **PRECAUTIONS**

**WARNING! KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR PROFESSIONAL USE ONLY BY A QUALIFIED TECHNICIAN.**

**Health Precautions** - Component A - IRRITANT - Prolonged skin or eye contact may cause sensitization and irritation. Component B - IRRITANT- Contact with skin or eyes may cause severe burns.

### **First Aid -**

**Skin Contact:** Wash thoroughly with soap and water.

**Eye Contact:** Flush immediately with clean water and contact a physician.

**Respiratory Problems:** Remove affected person to fresh air immediately and contact a physician.

**Hygiene:** Wash hands immediately after use. Wash clothing before reuse.

**Spills** - Collect with absorbent material. Remaining material may be removed with a suitable solvent.

**Disposal** - Dispose of in accordance with local, state and federal regulations.

Always use protective clothing, gloves and goggles consistent with OSHA regulations during use. Avoid eye and skin contact. Do not ingest. Refer to Material Safety Data Sheet for detailed safety precautions.

## **SAFETY INFORMATION**

In the event of an EMERGENCY call:  
CHEM-TREC 800-424-9300.

## **WARRANTY INFORMATION**

De Neef Construction Chemicals, Inc. products are warranted under the policy set forth under the WARRANTY section of the De Neef Construction Chemicals Inc., product catalog. Warranty information can also be obtained via the De Neef Construction Chemicals Inc. website at [www.deneef.com](http://www.deneef.com), by calling 713-896-0123 or toll free at 1-800-732-0166.

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