

# TECHNICAL INFORMATION

## EPOXIES

### PRODUCT NAME

## Denepox I-40

Two Component Epoxy

### MANUFACTURER

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

### PRODUCT DESCRIPTION

**Denepox I-40** is an ultra low viscosity, 100% solids, two component, and moisture insensitive epoxy injection resin system designed specifically for gravity feeding or pressure injection of cracks. Long pot life allows for gravity feeding of even hairline cracks on horizontal surfaces. **Denepox I-40** is moisture insensitive and can be applied in damp to dry (not wet) conditions.

### APPROPRIATE APPLICATIONS

- Hairline Structural Cracks
- Gravity Feed Horizontal Cracks
- Porous Concrete Surfaces

### ADVANTAGES

- Ultra Low Viscosity
- Moisture Insensitive
- 100% Solids
- VOC Compliant
- Easy application

### AVAILABILITY

1 gallon units  
(96 oz. "PART A" and 33.8 oz. "PART B")

### LIMITATIONS

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

### 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 to damp,

### PHYSICAL PROPERTIES

<u>PROPERTIES</u>	<u>PART A</u>	<u>PART B</u>
Solids	100%	100%
Color	Clear	Amber
Viscosity	125 cps	25 cps
Shelf Life	1 year	1 year
	<u>RESULTS</u>	<u>ASTM METHOD</u>
Mix Ratio by Volume	2.85:1 (A:B)	N/A
Viscosity	40 cps	Brookfield
Pot Life @ 77°F	80 minutes	N/A
Tensile Strength	9,000 psi	D-638
Flexural Strength	14,400 psi	D-790
Compressive Strength	12,000psi	D-695
Bond Strength to Dry Concrete	870 psi	C-321
Bond Strength to Wet Concrete	520 psi	C-321
Elongation	9%	D-638
*Slant Shear Dry concrete	1985 psi	C-882
*Slant Shear Water Saturated	1110 psi	C-882
*Splitting Tensile Strength Air Dried Concrete	923 psi	C-496
*Splitting Tensile Strength Water Saturated Concrete	703 psi	

\*Tested by U.S. Army Corps. Of Engineers. Reference REMR CS-11

### SURFACE PREPARATION cont.

but must be free of standing water. The very best results are obtained on dry concrete. Do NOT apply on surfaces, which have been sealed with a permanent type of form oil, curing compound or release agent. Remove these substances before application. The surface temperature must be 40°F and rising. Refer to De Neef Surface Preparation Guidelines for more details.

## **INSTALLATION PROCEDURES**

**Mixing Procedure:** Stir each component separately. Mix 2.85 parts 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. Mix only the amount of materials 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:** For gravity feeding: mix appropriate amount of epoxy 2.85 parts A to 1 part B by volume and pour onto properly dammed or widened crack to keep epoxy from spreading. As an injection epoxy: Mix and metering equipment is recommended. Please contact De Neef Construction Chemicals or your local representative for detailed instructions.

**Clean-Up:** Remove uncured **Denepox I-40** 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. ONLY FOR PROFESSIONAL USE 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. 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), or by calling 713-896-0123 or toll free at 1-800-732-0166.

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