

# TECHNICAL INFORMATION

## EPOXIES

### PRODUCT NAME

## Denepox Gel 50

Two Component General Purpose Epoxy Gel

### MANUFACTURER

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

### PRODUCT DESCRIPTION

**Denepox Gel 50** is a two component, 100% solids, low modulus, general-purpose epoxy gel used for patching, bonding, surface sealing and interior joint sealing. Used to seal cracks and around injection ports prior to pressure injection, especially when crack injection will be done on the morning after sealing. Because it is semi-flexible with an elongation of 50%, Gel 50 can handle movement in concrete, due to temperature changes throughout the day. This product meets ASTM C-881, Type III, Grade 3, Class: B & C.

### APPROPRIATE APPLICATIONS

- Patching
- Bonding
- Surface sealing
- Interior joint sealing

### ADVANTAGES

- Simple 1:1 Mix Ratio
- 100% Solids
- No Shrinkage
- Moisture Insensitive
- Tenacious Adhesion
- High Strength
- Non-Sag

### PACKAGING

Available in 2 and 10 gallon units

### PHYSICAL PROPERTIES

	<u>PART A</u>	<u>PART B</u>
Solids	100%	100%
Color	White gel	Black gel
Wt./Gal.	10.51 lb.	8.81 lb.
Shelf Life	1 year	1 year
	<u>PROPERTIES</u>	<u>ASTM METHOD</u>
Blended Color	Gray Concrete	Visual
Mix Ratio	1:1 by volume (A:B)	N/A
Viscosity	Non-sagging gel	N/A
Pot Life (3 oz.) @ 77°F	30 min.	N/A
Hardness(shore) @ 77°F	60-D	D-2240
Gel Time (5 mil) @ 77°F	8-10 hours	N/A
Tensile Strength	2,400 psi	D-638
Flexural Strength	500 psi	D-790
Compressive Strength	2,500 psi	D-695
Bond Strength	575 psi (48 hours)	C-321
Elongation	50%	D-638
Water Absorption	0.3% (24 hours)	N/A

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

### 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 any dust, oil, grease, laitance, curing compounds, or any other contaminants. It may be dry to damp, 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. The surface temperature must be 40°F and rising. On new concrete surfaces, remove laitance and un-bonded 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 Gel 50.** 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 in 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, mix in one part of dry 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** - Fill the cavity with mortar, using a trowel or spatula. Tamp and strike off level with the surrounding surface. When filling deep areas, limit each layer to 1 inch to avoid sagging on vertical or overhead applications.

### **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**

**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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