

# TECHNICAL INFORMATION

## EPOXIES

### PRODUCT NAME

## Denepox I-Gel

Two Component Epoxy Gel Adhesive

### MANUFACTURER

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

### PRODUCT DESCRIPTION

**Denepox I-Gel** is a two-component, 100% solids, high strength, injectable epoxy gel adhesive designed for repair of wide cracks or where material run-out is a concern. **Denepox I-Gel** can also be used for setting anchor bolts.

### APPROPRIATE APPLICATIONS

- Welding concrete structures together
- Setting anchor bolts
- As a sealing gel on wide cracks

### ADVANTAGES

- Simple 1:1 Mix Ratio
- 100% solids
- No shrinkage
- Stays in place even in wide cracks

### PACKAGING

Available in side by side cartridges, 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.

### 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, but must be free of standing water. The very best results are obtained on dry concrete.

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### PHYSICAL PROPERTIES

	<b>PART A</b>	<b>PART B</b>
Solids	100%	100%
Color	White Gel	Black Gel
Wt./Gal.	9.8 lb.	8.2 lb.
Shelf Life	2 years	2 years
	<b>PROPERTIES</b>	<b>ASTM METHOD</b>
Mix Ratio	1:1 by volume (A:B)	N/A
Viscosity	Smooth gray gel	N/A
Pot Life (3 oz.) @ 77°F	5-8 minutes	N/A
Hardness (shore) @ 77°F	80-D	D-2240
Gel Time (5 mil) @ 77°F	1-2 hours	N/A
Tensile Strength	8000 psi	D-638
Flexural Strength	12,000 psi	D-790
Compressive Strength	14,000 psi	D-695
Bond Strength	600 psi (24 hours)	C-321
Bond Strength	6750 psi	C-882
Elongation @ 77°F	3%	D-638
Heat Distortion Temp.	120°F (10 mil movement)	D-648
Slant Shear. 14 days	1639 psi, Moist cured @ 40°F	C-882-99
Slant Shear. 48 hours	1840 psi, Moist cured @ 73°F	C-881-02
Slant Shear. 14 days	2312 psi, Moist cured @ 73°F	C-881-02

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 cont.

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. Precondition the materials to be between 65° -

85°F before using. Refer to De Neef Surface Preparation Guidelines for more details.

## **INSTALLATION PROCEDURES**

**Application** - For injecting into concrete, seal surface crack with **I-Gel** and place ports at appropriate locations. Use automatic mix/meter equipment to pressure inject product into wide cracks.

**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. Blend for 2 minutes. Mix only the amount of material that can be used within the pot life. **BE CAREFUL!** This material sets up very rapidly. **Please note: large batches of epoxy will cure faster than small batches. Mixed epoxy will cure much faster in hot weather than in cold weather.**

**Clean-Up** - Remove uncured **I-Gel** 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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