

TECHNICAL INFORMATION

EPOXIES

PRODUCT NAME

Denepox Gel LPL
Two Component Epoxy Gel

MANUFACTURER

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

PRODUCT DESCRIPTION

Denepox GEL LPL is a two component, 100% solids, high modulus, gel consistency, moisture insensitive epoxy system. It is designed for bonding new concrete to old or spalled concrete. To create a mortar for grouting and repairing vertical areas in damp or wet conditions, simply add sand. This product meets ASTM C-881, Type: IV, Grade: 3, Class: B & C.

APPROPRIATE APPLICATIONS

ADVANTAGES

- Super High Strength
- Excellent Bond Strength
- Moisture Insensitive
- 100% Solids
- Easy To Apply
- Long Pot Life

PACKAGING

Available in 3 and 15 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.

PHYSICAL PROPERTIES

	PART A	PART B
Solids	100%	100%
Color	White	Black
Weight per gallon	10.51	9.12 lb
Shelf Life	1 year	1 year
	PROPERTIES	ASTM METHOD
Blended Color	Gray	Visual
Mix Ratio	2:1 by volume (A:B)	N/A
Viscosity @ 77°F	Smooth Gel	N/A
Pot Life (3 oz.) @ 77°F	1 hour	N/A
Hardness (shore) @ 77°F	84-D ±5%	D-2240
Gel Time (5 mil) @ 77°F	2-3 hours	N/A
Tensile Strength	10,000 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
Elongation @ 77°F	2%	D-638
Water Absorption	0.1% (24hours)	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.

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, 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. The surface temperature must be 40°F and rising. Hairline cracks and other defects should be opened by use of a masonry saw to provide a

1-1/4" X 1/4" groove. Clean crack and adjacent area of any loose adhering material. All steel surfaces must be wire brushed or sandblasted to remove previous coatings, rust or mill scale. Surface preparation should be limited to those areas that can be coated promptly before rust can reform. Refer to De Neef Surface Preparation Guidelines for more details.

INSTALLATION PROCEDURES

Mixing Procedure - Stir each component separately. Mix 2 parts 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 – As a grout: Fill the cavity with mortar, using a trowel or spatula or caulking gun. 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. **As a mortar:** Place on surface, spread and rough level to desired thickness. Follow by troweling in one direction to a uniform surface and thickness. Do not overwork material. Keep the trowel well lubricated with mineral spirits. Apply in maximum 1-1/2" lifts at a time. Allow exotherm to subside before proceeding with subsequent layers.

Clean Up - Remove uncured **Gel LPL** 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, by calling 713-896-0123 or toll free at 1-800-732-0166.

Rev. 04/2006