

TECHNICAL INFORMATION

EPOXIES

PRODUCT NAME

Denepox I-300

Two Component Structural Epoxy

MANUFACTURER

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

PRODUCT DESCRIPTION

Denepox I-300 is a standard viscosity, 100% solids, two component structural epoxy adhesive designed specifically for pressure injection of static cracks. It will structurally adhere to most building materials (concrete, wood, steel, plastic, and rock). **Denepox I-300** is moisture insensitive. It can be applied in damp to dry (not wet) conditions. This product meets ASTM C-881, Type: IV, Grade: 1, Class: B and C.

APPROPRIATE APPLICATIONS

Static cracks in structural concrete

ADVANTAGES

- Very High Strength
- Excellent Bond Strength
- Good Chemical Resistance
- Moisture Insensitive
- 100% Solids
- Easy To Apply

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

	<u>PART A</u>	<u>PART B</u>
Solids	100%	100%
Color	Clear	Amber
Weight per gallon	9.4 lb	8.0 lb
Shelf Life	1 year	1 year
	<u>PROPERTIES</u>	<u>ASTM METHOD</u>
Mix Ratio	2:1 by volume (A:B)	N/A
Viscosity @ 77°F	270 cps	Brookfield
Pot Life (3 oz.) @ 77°F	12-15 minutes	N/A
Hardness (shore) @ 77°F	85-D ±5%	D 2240
Gel Time (5 mil) @ 77°F	3 hours	N/A
Tensile Strength	10,000 psi	D 638
Flexural Strength	13,500 psi	D-790
Compressive Strength	12,000 psi	D-695
Bond Strength	500 psi (24 hours)	C-321
Elongation @ 77°F	2%	D 638
Water Absorption	0.1%(24hours)	N/A
Heat distortion temp.	145°F (10 mil movement)	D-648

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 to damp, 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. Precondition the materials to between 65°F – 85°F before using. Refer to DeNeef Surface Preparation Guidelines for more details.

INSTALLATION PROCEDURES

Mixing Procedure: Stir each component separately. Mix 2 parts A with 1 part B by volume into a clean mixing container. Mix 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: pressure injection: Two component pumps or cartridges are recommended. Set porting systems appropriate for injection equipment. First seal the surface of the cracks. Always inject in sequence working from one end of the crack to the other. Allow air to vent out of sequential injection ports. Cracks should remain pressurized after injection is completed. Please note that it is beneficial to clean out the cracks prior to epoxy injection. **For gravity feeding:** Surface seal bottom side of structure if necessary. Route V-notch into the crack using a grinder with a masonry disk. Mix appropriate amount of epoxy 2 parts A with 1 part B by volume and pour into V notch until crack is completely filled.

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.

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

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. 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.

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