

TECHNICAL INFORMATION

EPOXIES

PRODUCT NAME

Denepox I-1400 Rapid Cure
Two Component General Purpose Epoxy

MANUFACTURER

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

PRODUCT DESCRIPTION

Denepox I-1400 Rapid Cure is a two-component, 100% solids, general purpose, epoxy resin designed to be injected into structural cracks in concrete or between bearing pads with a separation of up to one half inch. It is a medium to high viscosity epoxy injection resin that can structurally adhere to most building materials (concrete, wood, steel, plastic & rock). Meets ASTM C881 Type IV, grade I.

APPROPRIATE APPLICATIONS

Structural cracks in concrete structures
Voids between bearing pads

ADVANTAGES

- Super 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.

SURFACE PREPARATION

Surfaces to be repaired or sealed must be clean and sound. Concrete must be free of dust, laitance, sealers, grease and other

TYPICAL PROPERTIES

	Resin Part A	Hardener Part B
Solids	100%	100%
Color	Clear	Clear, amber
Wt./gal.	9.8 lb.	8.0 lb.
Shelf life	1 year	1 year
	Typical Mixed Values	ASTM Method
Mix ratio	2:1 by volume (A:B)	N/A
Viscosity	1400 cps	Brookfield
Pot Life (3 oz.)	7 min.	N/A
Hardness (shore)	82-D	D-2240
Geltime (5mil)	1 hr.	N/A
Tensile strength	10,000 psi	D-638
Flexural strength	10,000 psi	
Compressive strength*	12,000 psi	D-695
Compressive strength @ 40°F**	4,500 psi (24 hrs.)	
Bond strength	800 psi (24 hrs.)	C-321
Elongation	2%	D-638
Water absorption	0.1% (24 hrs.)	N/A
*4 Hours	4,000 psi	D-695
16 Hours	8,000 psi	D-695
24 Hours	10,000 psi	D-695

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.

bond inhibiting contaminants. Drilling of cracks for injection ports must be accomplished with a vacuum attached swivel drill chuck. Entry ports for injection should be approved devices, spaced at appropriate intervals, to accomplish the full penetration of the resin. Refer to De Neef Surface Preparation Guidelines for more details.

INSTALLATION PROCEDURES

Mixing - Supplied as a two-component system. **Denepox I-1400 Rapid Cure** can be injected with a conventional 2:1 ratio pumping system through a static mixing head. Injection ports should be surface mounted with **Denepox Rapid Gel** or **Denepox Gel 50**.

Mix ratio - Standard injection grouting techniques apply. Set automatic metering equipment for 2:1 by volume of A:B **Denepox I-1400 RC** and use a static mixer.

STORAGE & HANDLING

Denepox I-1400 RC is moderately sensitive to high storage temperatures; therefore, we recommend storage at 41°-60°F under dry conditions. Storage temperatures should not exceed 80°F. Once a pail has been opened, the useful life of the material is greatly reduced and it should be used as quickly as possible. **Denepox I-1400 RC** should be properly removed from all application equipment immediately after use.

PRECAUTIONS

CAUTION: **FOR PROFESSIONAL USE ONLY.** Can cause skin irritation. Always use protective clothing, gloves and goggles consistent with OSHA regulations during use. Avoid eye and skin contact. **Wash contaminated skin with soap and water, NEVER SOLVENT.** In case of eye contact, flush with water for 15 minutes and contact a physician immediately. 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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