DE NEEF® Denepox I-40 Data Sheet

Two Component Epoxy

Product Description

DE NEEF® Denepox I-40 is an ultra low viscosity, 100% solids, two component, moisture insensitive epoxy injection resin system designed specifically for gravity feeding or pressure injection of cracks. Its ultra low viscosity allows for gravity feeding of even hairline cracks on horizontal surfaces. DE NEEF® Denepox I-40 is moisture insensitive and can be applied in damp to dry (not wet) conditions. This product may be injected with multi-ratio pump or due to its long pot life, it may be "hot potted" with a single component pump.

Product Advantages

- Ultra Low Viscosity
- Moisture Insensitive
- 100% Solids
- VOC Compliant
- Long Pot Life

Product Applications

- Hairline Structural Cracks
- Gravity Feed Horizontal Cracks
- Porous Concrete Surfaces

Packaging & Handling

Approximately 1 gallon units

(92 fl oz. "PART A" & 32 fl oz. "PART B")

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.

Installation Guidelines

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. Refer to DE NEEF®Surface Preparation Guidelines for more details.

Mixing Procedure: Stir each component separately. Mix 2.85 parts 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 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: For gravity feeding: mix appropriate amount of epoxy, 2.85 parts A to 1 part B by volume and pour onto properly dammed or widened crack to keep epoxy from spreading. As an injection epoxy: Mix and metering equipment is recommended. Please contact DE NEEF®Construction Chemicals or your local representative for detailed instructions.

Clean-Up: Remove uncured DE NEEF® Denepox I-40 from tools and equipment with a suitable solvent such as xylene or toluene immediately after use. Cured material may only be removed mechanically.

Health and Safety

WARNINGS: KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. ONLY FOR PROFESSIONAL USE BY A QUALIFIED TECHNICIAN.

Health Precautions:

- Component A - IRRITANT - Prolonged skin or eye contact may cause sensitization and irritation.
- Component B - CORROSIVE - 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, stale and federal regulations. Refer to Safety Data Sheet for detailed safety precautions.

In the event of an EMERGENCY call: CHEMTREC 800-424-9300.

Limitations

Application at ambient temperature below 40 °F is not recommended. Exposure to temperatures exceeding 150 °F for prolonged periods is not recommended.

Properties

PROPERTY	PART A	PART B
Solids	100%	100%
Color	Clear	Amber
Shelf Life	1 year	1 year
Mix Ratio	2.85:1 (A:B) Volume 3.33:1 (A:B) Weight	2.85:1 (A:B) Volume 3.33:1 (A:B) Weight

PROPERTY	MIXED A AND B	TEST
Viscosity	85 cps	Brookfield
Pot Life 77°F	80 min.	N/A
Tensile Strength	9,000 psi	D-638
Flexural Strength	14,400 psi	D-790
Compressive Strength	12,000 psi	D-695
Bond Strength (Dry Concrete)	870 psi	C-321
Bond Strength (Wet Concrete)	520 psi	C-321
Elongation	9%	D-638
*Slant Shear Dry Concrete	1985 psi	C-882
*Slant Shear Water Saturated	1110 psi	C-882
*Splitting Tensile Strength Air Dried Concrete	923 psi	C-496
*Splitting Tensile Strength Water Saturated Concrete	703 psi	C-496 (modified)

*Tested by U.S. Army Corps. Of Engineers. (REMR CS-11)

GCP Applied Technologies Inc., 2325 Lakeview Parkway, Suite 400, Alpharetta, GA 30009, USA

GCP Canada, Inc., 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6

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