

DE NEEF[®] Dene-Lift 400

Two Component Polyurethane Foam

Product Description

DE NEEF[®] Dene-Lift 400 is a two component rigid polyurethane system for injection and pour foam applications. This foam has low viscosity, specifically designed to produce a rigid foam for slab and road jacking as well as pole setting in lieu of concrete. Other uses included tooling, mold fabrication, and void filling. This product has excellent processing characteristics. Good dimensional stability and adhesion to substrate.

Product Applications

- Slab jacking
- Road jacking
- Void filling

Product Advantages

- Hydrolytically stable
- No heavy metal catalysts
- No Ozone Depleting Products (ODP)
- No bromine or other halogenated components
- No formaldehyde components
- Mildew, bacteria, and fungus resistant
- Safe for burial and landfill disposal

Packaging & Handling

Packaging:

100 gallon drum sets

500 gallon tote sets

Both components should be stored in a dry place at temperatures between 60°F and 90°F (15°C–32°C).

Installation Guidelines

Warning: Consult the Technical Data Sheets and SDS before using.

Installation Instructions: Do not thin with solvents. Confirm product performance in specific chemical environment prior to use. Substrate temperature must be at least 5°F above the dew point. For detailed installation instructions refer to the DE NEEF[®] technical bulletin for your application.

Standard 1:1 ratio, heated, plural component equipment developing a minimum of 1200psi (8.34mpa) dynamic pressure with heating capabilities to 150°F (66°C) will adequately spray this product. These include Gusmer HV-20/35, Gusmer 20/35 SPI-Gusmer 25/25, *SPI-Gusmer FF18/18. Gun models include: Gusmer AR-250, SPI-Gusmer Model D-7, Gusmer GX7 and Gap Pro.

Pre-heater temperature should be a minimum of 120°F – 140°F (48°C – 60°C).

Hose temperature should be 120°F – 140°F (48°C – 60°C). A hose thermometer inserted under the insulation near the gun should read a minimum of 105°F (40°C).

Substrate temperature should be a minimum of 50°F (10°C).

Injection: During injection the grout will follow the path of least resistance. When the material has stopped penetrating it will continue to expand against the limits of the confined space and compress within itself, forming a dense, closed cell foam.

Extreme conditions: For application procedures in extreme temperatures and specific environments or equipment recommendations call the DE NEEF® Technical Service Department.

Cleaning: Clean all tools and equipment which have been in contact with the resin with DE NEEF® Washing Agent before resin has cured. Products should be disposed of according to local, state, and federal laws.

Limitations

DE NEEF® Dene-Lift 400 has not been tested for flame spread or smoke development. Not to be installed within two inches (2”) of heat emitting devices, where temperature is in excess of 200°F This product is for professional use only. Minimum material/container temperature for spray application is 70°F (21°C). Avoid moisture contamination in containers. Containers should not be resealed if contamination is suspected, CO₂ pressure can develop. Do not attempt to use contaminated material.

Health and Safety

Always use protective clothing, gloves and goggles consistent with OSHA regulations. Avoid eye and skin contact. Do not ingest. Refer to SDS. **For emergencies, call CHEMTREC 1-800-424-9300.**

Properties

DE NEEF® DENE-LIFT 400		
Viscosity Part A 77°F	195 cps	Brookfield
Viscosity Part B 77° F	700 cps	Brookfield
Mixing ratio by volume	1:1 (A:B)	

PROPERTY	CURED	TEST (ASTM)
Density	4.6 pcf	D1622
Compressive Strength	78 psi	D1622
Tensile Strength	140 psi	D1622
Elongation	25%	D1622
Flexural Strength	112 psi	D1622
Coefficient of Thermal Expansion	62.5×10^{-5}	D1622
*Cream	1 min.	
*Rise	3 min.	
Maximum use Temp.	200°F	

Expansion

14 V (volumes)

Note: The reactivity profile of the foam can be varied as needed. The samples for tests were sprayed with Gusmer 20/35 @ 1200 psi dynamic pressure primary and hose heat @ 135 °F (57 °C). Gap Pro gun with 00 chamber.

gcpat.com | North America Customer Service: 1 877-4AD-MIX1 (1 877-423-6491)

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.

DE NEEF is a trademark, which may be registered in the United States and/or other countries, of GCP Applied Technologies Inc. This trademark list has been compiled using available published information as of the publication date and may not accurately reflect current trademark ownership or status.

© Copyright 2018 GCP Applied Technologies Inc. All rights reserved.

GCP Applied Technologies Inc., 62 Whittemore Avenue, Cambridge, MA 02140 USA.

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

This document is only current as of the last updated date stated below and is valid only for use in the United States. It is important that you always refer to the currently available information at the URL below to provide the most current product information at the time of use. Additional literature such as Contractor Manuals, Technical Bulletins, Detail Drawings and detailing recommendations and other relevant documents are also available on www.gcpat.com. Information found on other websites must not be relied upon, as they may not be up-to-date or applicable to the conditions in your location and we do not accept any responsibility for their content. If there are any conflicts or if you need more information, please contact GCP Customer Service.

Last Updated: 2018-08-24

gcpat.com/solutions/products/de-neeef-waterproofing-injection-solutions/de-neeef-dene-li-ft-400