

DE NEEF[®] INJECTO[®] PURE

Product Description

DE NEEF[®] INJECTO[®]PURE is an ultra low viscosity hydrophobic polyurethane designed to be used with INJECTO[®]Grout Tube for sealing construction joints. DE NEEF[®] INJECTO[®]PURE grout expands on contact with water and quickly cures to a tough, flexible foam that is resistant to most organic solvents, mild acids, alkali, petroleum and micro-organisms.

Product Advantages

- Super low viscosity for hairline cracks
- Free Foam Expansion up to 18 times
- Contains no volatile solvents
- Single Component
- Will not dilute in water
- Controlled reaction time
- Tough foam with flexibility
- Improved low temperature performance
- DE NEEF[®] Flex Cat PURE liquid to -40 °F

Product Applications

- Repairing existing leaky joints
- Waterstop for new concrete structures
- Injection through these grout tubes to form a flexible waterstop in concrete joints:
 - DE NEEF[®] INJECTO[®] Tube
 - SIS INJECTO[®] Tube

Packaging & Handling

| DE NEEF [®] INJECTO [®] PURE | DE NEEF [®] FLEX CAT PURE |
|--|------------------------------------|
| 5 gallon metal pail | 25 fl. oz. in 1 qt. metal cans |
| 50 gallon metal drum | |

DE NEEF[®] INJECTO[®]PURE is sealed under dry nitrogen because it is sensitive to moisture, and should be stored in original containers in a dry area. Storage temperature must be between 40 °F and 90 °F. Once the packaging has been opened, the useful life of the material is greatly reduced and should be used as soon as possible.

Shelf life: 2 years.

Limitations

Low temperatures will significantly affect viscosity. DE NEEF® INJECTO®PURE is not designed for void filling and must be used in compression. If site temperatures are extremely low, heat bands or heated water baths may be used on the pails before and during installation to maintain the product's temperature. Avoid splashing water into open containers, as the material is water activated. Avoid exceeding 90°F when warming.

CAUTION: pH NOTICE. Water used to activate PURE Grouts must be in the pH range of 3-10 for optimum foam quality.

Reaction Times

| T | % CAT | END REACTION | FOAM FACTOR |
|-------|-------|--------------|-------------|
| 40 °F | 2 | 6'30" | 14V |
| | 5 | 3'25" | 16V |
| 60 °F | 2 | 5'10" | 16V |
| | 5 | 2'35" | 16V |
| 77 °F | 2 | 4'30" | 16V |
| | 5 | 2'20" | 17V |
| 86 °F | 2 | 4'20" | 16V |
| | 5 | 2'00" | 17V |
| 95 °F | 2 | 3'35" | 17V |
| | 5 | 1'45" | 18V |

Installation Guidelines

Warning: DE NEEF® INJECTO®PURE must be used with DE NEEF® Flex Cat PURE. Consult the Technical Data Sheets and SDS before using.

Installation Instructions

For detailed installation instructions refer to the DE NEEF® technical bulletin for your application.

Catalyst: Shake catalyst can 2-3 minutes. Pour the desired amount of DE NEEF® INJECTO®PURE into a clean dry pail. Measure 1% Flex Cat PURE and pour it into the pail. Stir until adequately mixed. Exceeding the recommended amount of catalyst may adversely affect the reaction and quality of the cured foam. (1 catalyst can capful=0.5 oz; 1.3 oz/gal resin = 1%)

Injection: Injectable tubes should be adequately flushed with water prior to the injection of grout. 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. See DE NEEF® INJECTO®Grout Tube Installation procedures for more detail.

Extreme conditions: For application procedures in extreme temperatures and specific environments or equipment recommendations call the GCP Applied Technologies 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.

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® INJECTO® PURE RESIN | | |
|------------------------------|------------------------|------------|
| Solids | 100% | ASTM D2369 |
| Viscosity | 200 cps at 77°F | ASTM D2196 |
| Color | Pale yellow | |
| Density | 1.02 g/cm ³ | ASTM D4659 |
| Flashpoint | >270°F | ASTM D93 |
| Corrosiveness | Non-corrosive | |
| DE NEEF® FLEX CAT PURE | | |
| Viscosity | 15 cps at 77°F | ASTM D2196 |
| Color | Cleaeer to pale gray | |
| Flashpoint | 221°F | ASTM D93 |
| DE NEEF® INJECTO® PURE CURED | | |
| Density confined | 1.00 g/cm ³ | ASTM D3574 |
| Density free | about 3 PCF | ASTM D3574 |
| Tensile strength | >174 psi | ASTM D3574 |
| Elongation % | 100 | ASTM D3574 |

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, INJECTO, and PURE are trademarks, 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: 2022-04-21

gcpat.com/solutions/products/de-need-waterproofing-injection-solutions/de-need-injecto-pure