

DE NEEF[®] INJECTO[®] PURE

Product Description

INJECTO[®]PURE is an ultra low viscosity hydrophobic polyurethane designed to be used with INJECTO[®]Grout Tube for sealing construction joints. 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
- 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:
 - INJECTO[®] Tube
 - SIS INJECTO[®] Tube

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

INJECTO®PURE must be used with 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 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 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.

Properties

| 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

FLEX CAT PURE

| | | |
|------------|---------------------|------------|
| Viscosity | 15 cps at 77°F | ASTM D2196 |
| Color | Cleare to pale gray | |
| Flashpoint | 221 °F | ASTM D93 |

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 |

Packaging & Handling

INJECTO® PURE

5 gallon metal pail
50 gallon metal drum

FLEX CAT PURE

25 fl. oz. in 1 qt. metal cans

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. 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.

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.

ca.gcpat.com | North America customer service: 1-877-4AD-MIX (1-877-423-6491)

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Last Updated: 2023-06-29

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