# DE NEEF® Flex SLV Data Sheet

## Product Description

DE NEEF® Flex SLV is an ultra low viscosity hydrophobic polyurethane designed to be injected into hairline cracks in concrete structures. DE NEEF® Flex SLV 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
- Controlled reaction time
- Improved low temperature performance
- Flex Cat PURe liquid to -40°F

## Product Applications

- Sealing fine and hairline leaking cracks in concrete 0.02" and finer
- Injecting grout tubes (INJECTO® )

## Installation Guidelines

WARNING: DE NEEF® FLEX SLV PURE MUST BE USED WITH DE NEEF® FLEX CAT. 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 Flex SLV PURe into a clean dry pail. Measure the appropriate amount of Flex Cat (refer to the REACTION TIMES section of this data sheet for the desired set time) 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.

- Flush pump with DE NEEF® Washing Agent every 1 to 2 hours.
- Use the minimum percentage of catalyst necessary for your application.

- Keep grouting materials cool during storage and pumping.
- Only catalyze as much material as will be used in 1-2 hours. 1 hr in hot weather, 2 hrs in cold.
- Do not leave catalyzed material in the pump longer than 3 hours.

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.

## 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 |

## Packaging & Handling

### DE NEEF® Flex SLV:

5 gallon metal pail
50 gallon metal drum

### DE NEEF® Flex Cat PURe:

25 fl. oz. in 1 qt. metal cans

DE NEEF® Flex SLV 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.

## 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.

## Limitations

DE NEEF® FLEX SLV MUST BE USED WITH DE NEEF® FLEX CAT PURE.

Low temperatures will significantly affect viscosity. Flex SLV 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 90ºF when warming.

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

## Properties

| DE NEEF® FLEX SLV 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 | Clear to pale grey | |
| Flashpoint | 221°F | ASTM D93 |
| **DE NEEF® FLEX SLV 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 |



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Last Updated: 2026-11-18

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