



Flex LV PRe

Product Description

Flex LV PRe is a hydrophobic polyurethane designed to form a flexible gasket when injected into cracks and joints in concrete structures. Flex LV PRe 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.

- P**hthalate free- no phthalate-based plasticizers
- U**nregulated for transport- no hazmat shipping
- R**eformulated TDI free-all MDI based technology.
- E**nvironmentally friendly-NSF/ANSI 61 approved.



FLEX LV PRe when combined with FLEX CAT PRe is certified by WQA to NSF/ANSI 61 for materials safety only, as verified and substantiated by test data. Please refer to WQA website(www.wqa.org) for use ratios and limitations

Applications

- Sealing leaking cracks in concrete 0.02” and wider
- Sealing moving and non-moving joints in concrete
- Injecting grout tubes (INJECTO®)

Properties

Flex LV PRe Resin		
Solids	100%	ASTM D1010
Viscosity	550 cps at 77°F	ASTM D1638
Color	Pale Yellow	
Density	1.02 g/cm ²	ASTM D1638
Flashpoint	>270°F	CC
Corrosiveness	Non-corrosive	
Flex Cat PRe		
Viscosity	15 cps at 77°F	ASTM D2196
Color	Clear to pale gray	
Flashpoint	221°F	CC
Flex LV PRe Cured		
Density confined	1.00 g/cm ²	ASTM D3574
Density free	about 3 PCF	
Tensile	>174 psi	
Elongation %	100	

Packaging & Handling

- Flex LV PRe: 5 gallon metal pail
50 gallon metal drum
- Flex Cat PRe: 32 oz. metal cans

Flex LV PRe 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.

Product Advantages

- Free Foam Expansion up to 18 times
- Contains no volatile solvents
- Single Component
- Controlled reaction time
- Improved low temperature performance
- Flex Cat PRe liquid to -40°F

Reaction Times

T	% Cat	End Reaction	Foam Factor
40°F	1	17'00"	12V
	2	8'30"	14V
	5	4'00"	16V
60°F	1	10'50"	14V
	2	7'00"	16V
	5	3'05"	16V
77°F	1	9'00"	14V
	2	5'35"	16V
	5	2'10"	17V
86°F	1	7'30"	14V
	2	4'40"	16V
	5	1'45"	17V
95°F	1	6'45"	15V
	2	4'00"	17V
	5	1'35"	18V

Installation Guidelines

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

Installation Instructions: For detailed installation instructions refer to the DeNeef technical bulletin for your application.

Catalyst: Shake catalyst can 2-3 minutes. Pour the desired amount of Flex LV PURE into a clean dry pail. Measure the appropriate amount of Flex Cat PURE (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.

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.

www.deneef.com

Technical Service 1-800-732-0166

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 the users' consideration, investigation and verification, but we do not warrant the results to be obtained. Please read all statements, recommendations or 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 which would infringe any patent or copyright. W. R. Grace & Co.-Conn., 62 Whittemore Avenue, Cambridge, MA 02140.

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

This product may be covered by patents or patents pending.

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

Cleaning: Clean all tools and equipment which have been in contact with the resin with DeNeef 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 MSDS. For emergencies, call CHEMTREC 1-800-424-9300.

Limitations

Low temperatures will significantly affect viscosity. Flex LV 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.

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