de neef®

Flex LV PURe

Product Description

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

Phthalate free- no phthalate-based plasticizers
Unregulated for transport- no hazmat shipping
Reformulated TDI free-all MDI based technology.
environmentally friendly-NSF/ANSI 61 approved.

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Flex LV PURe when combined with Flex CAT PURe 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.

Packaging & Handling

Flex LV PURe: 5 gallon metal pail
50 gallon metal drum
Flex Cat PURe: 25 fl. oz. in 1 qt. metal cans

Flex LV 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.

Applications

- Sealing leaking cracks in concrete 0.02" and wider
- Sealing moving and non-moving joints in concrete

Product Advantages

- 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

Properties

Flex LV PURe Resin		
Solids	100%	ASTM D2369
Viscosity	550 cps at 77°F	ASTM D2196
Color	Pale yellow	
Density	1.02 g/cm³	ASTM D4659
Flashpoint	>270°F	ASTM D93
Corrosiveness	Non-corrosive	
Flex Cat PURe		
Viscosity	15 cps at 77°F	ASTM D2196
Color	Clear to pale gray	
Flashpoint	221°F	ASTM D93
Flex LV PURe Cured		
Density confined	1.00 g/cm³	ASTM D3574
Density free	about 3 PCF	ASTM D3574
Tensile strength	>174 psi	ASTM D3574
Elongation %	100	ASTM D3574

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: Flex LV 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 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.

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 SDS. **For emergencies, call CHEMTREC 1-800-424-9300.**

Limitations

Flex LV PURe must be used with Flex Cat PURe. 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 90ºF 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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