DE NEEF® CFL PURe Data Sheet

Product Description

DE NEEF® CFL PURe is a hydrophobic polyurethane designed for void filling and barrier wall grouting. Depending on the temperature and amount of accelerator (Flex Cat PURe) used, the grout quickly cures to a tough closed cell polyurethane foam that has some flexibility to accommodate differential movement. DE NEEF® CFL PURe is resistant to most organic solvents, mild acids, alkali, petroleum and micro-organisms.

Product Advantages

- Free Foam Expansion up to 20 times
- Contains no volatile solvents
- Single Component
- Will not dilute in water
- Controlled reaction time
- Tough foam with flexibility

Product Applications

- Sealing spaces with differential movement
- Filling voids
- Barrier Wall Grouting

Packaging & Handling

DE NEEF® CFL PURe:

5 gallon metal pail
50 gallon metal drum

DE NEEF® Flex Cat PURe:

25 fl. oz. in 1 qt. metal cans

DE NEEF® CFL 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.

Installation Guidelines

WARNING: CFL 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 CFL 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 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
50°F	1	7'50"	15V
	3	3'50"	17V
68°F	1	6'00"	17V
	3	3'00"	19V
86°F	1	5'50"	18V
	3	2'30"	20V

Limitations

CFL PURE MUST BE USED WITH FLEX CAT PURE.

Low temperatures will significantly affect viscosity. 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.

Properties

DE NEEF® CFL PURe Resin		
Solids	100%	ASTM D2369
Viscosity	350 cps at 77°F	ASTM D2196
Color	Brown liquid	
Density	1.08 g/cm^3	ASTM D4659
Flashpoint	284°F	ASTM D93
Corrosiveness	Non-corrosive	
DE NEEF® Flex Cat PURe		
Viscosity	15 cps at 77°F	ASTM D2196
Color	Pale yellow liquid	
Flashpoint	221°F	ASTM D93
CFL PURe Cured		
Density confined	1.00 g/cm^3	ASTM D3574
Density free	2 PDF	ASTM D3574
Compressive strength	1377 psi	confined
Flexural strength	1305 psi	confined

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.



CFL 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.

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.

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