



## CFL PURE

### Product Description

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. CFL PURE 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**vironmentally 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](http://www.wqa.org)) for use ratios and limitations

### 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

### Applications

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

### Properties

CFL PURE Resin		
Solids	100%	ASTM D1010
Viscosity	350 cps at 77°F	ASTM D1638
Color	Brown liquid	
Density	1.08 g/cm <sup>2</sup>	ASTM D1638
Flashpoint	284°F	CC
Corrosiveness	Non-corrosive	
Flex Cat PURE		
Viscosity	15 cps at 77°F	ASTM D2196
Color	Pale yellow Liquid	
Flashpoint	221°F	CC
CFL PURE Cured		
Density confined	1.00 g/cm <sup>2</sup>	ASTM D3574
Density free	2 PCF	
Compressive	1377 psi	confined
Flexural	1305 psi	confined

### Packaging & Handling

- CFL PURE: 5 gallon metal pail  
 50 gallon metal drum  
 Flex Cat PURE: 32 oz. metal cans

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.

## 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

## 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 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 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.

[www.deneef.com](http://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.

DN-XXX

Printed in U.S.A.

## 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. 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.

Issue: 03/2012

GRACE

Copyright 2011. W. R. Grace & Co.–Conn.

12/11 FA/PDF