

# DE NEEF<sup>®</sup> Cut PUnE

## Product Description

DE NEEF<sup>®</sup> Cut PUnE is a hydrophobic polyurethane designed to fill large voids in rock fissures, gravel layers, joints, and cracks in concrete structures and for the cut-off of gushing water. Depending on the temperature and amount of accelerator (DE NEEF<sup>®</sup> Cut Cat PUnE) used, the grout quickly cures to a rigid, closed cell polyurethane foam that is resistant to most organic solvents, mild acids, alkali, petroleum and micro-organisms.

## Product Advantages

- Free foam expansion up to 30 times
- Contains no volatile solvents
- Single component
- Will not dilute in water
- Controlled reaction time
- 3 catalysts available: Cut Cat, Fast, XF

## Product Applications

- Sealing larger volume leaks through concrete cracks and fissures
- Filling voids
- Stabilizing soil or gravel

## Reaction Times

T	% CAT	END REACTION	FOAM FACTOR
40°F	5	5'35"	22V
	10	3'05"	25V
50°F	5	5'00"	24V
	10	2'50"	28V
60°F	5	4'45"	25V
	10	2'35"	28V
68°F	5	4'35"	27V
	10	2'10"	29V
77°F	5	4'00"	28V
	10	2'05"	30V
86°F	5	3'35"	29V
	10	1'55"	30V

95°F	5	2'55"	29V
	10	1'50"	30V

## 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 PRe Grouts must be in the pH range of 3-10 for optimum foam quality.

## Installation Guidelines

**Warning: Cut PRe must be used with Cut Cat PRe.** 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 DE NEEF® Cut PRe into a clean dry pail. Measure the appropriate amount of DE NEEF® Cut Cat PRe (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.

## 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.**

## Packaging & Handling

### DE NEEF® Cut PURE:

5 gallon metal pail  
50 gallon metal drum

### DE NEEF® Cut Cat PURE:

32 oz. metal cans

DE NEEF® Cut 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.

## Properties

### CUT PURE RESIN

Solids	100%	ASTM D2369
Viscosity	180 cps at 77°F	ASTM D2196
Color	Black-brown liquid	
Density	1.10 g/cm <sup>3</sup>	ASTM D4659
Flashpoint	293°F	ASTM D93
Corrosiveness	Non-corrosive	

### DE NEEF® Cut Cat PURE

Viscosity	15 cps at 77°F	ASTM D2196
Color	Red liquid	
Flashpoint	158°F	ASTM D93

### DE NEEF® Cut PURE Cured

Density confined	1.00 g/cm <sup>3</sup>	ASTM D3574
Density free	2 PCF	ASTM D3574
Compressive strength	35 to 4351 psi	Depends on confinement

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