DE NEEF® Cut PURe Data Sheet

Product Description

DE NEEF® Cut PURe 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® Cut Cat PURe) 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, Cut Cat Fast, Cut Cat Extra Fast

Product Applications

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

Reaction Times

T	% CAT	END REACTION	FOAM FACTOR
40°F	10	3'05"	25V
50°F	10	2'50"	28V
60°F	10	2'35"	28V
68°F	10	2'10"	29V
77°F	10	2'05"	30V
86°F	10	1'55"	30V
95°F	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 PURe Grouts must be in the pH range of 3-10 for optimum foam quality.

Installation Guidelines

WARNING: CUT PURE MUST BE USED WITH CUT CAT PURE. 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 PURe into a clean dry pail. Measure the appropriate amount of DE NEEF® Cut 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, or using less than 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:

32 oz. metal can
5 gallon metal pail
50 gallon metal drum

DE NEEF® Cut Cat PURe:

5 gallon metal pail

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^3	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^3	ASTM D3574
Density free	2 PCF	ASTM D3574
Compressive strength	35 to 4351 psi	Depends on confinement

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.

C US

CUT PURe when combined with CUT 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.

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