DE NEEF® INJECTO® PURe

Product Description

INJECTO® PURe is an ultra low viscosity hydrophobic polyurethane designed to be used with INJECTO® Grout Tube for sealing construction joints. INJECTO® 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.

Product Advantages

- Super low viscosity for hairline cracks
- Free Foam Expansion up to 18 times
- Contains no volatile solvents
- Single Component
- Will not dilute in water
- Controlled reaction time
- Tough foam with flexibility
- Improved low temperature performance
- Flex Cat PURe liquid to -40°F

Product Applications

- Repairing existing leaky joints
- Waterstop for new concrete structures
- Injection through these grout tubes to form a flexible waterstop in concrete joints:
  - INJECTO® Tube
  - SIS INJECTO® Tube

Reaction Times

T	% CAT	END REACTION	FOAM FACTOR
40°F	2	6'30"	14V
	5	3'25"	16V
60°F	2	5'10"	16V
	5	2'35"	16V
77°F	2	4'30"	16V
	5	2'20"	17V
86°F	2	4'20"	16V
	5	2'00"	17V
95°F	2	3'35"	17V
	5	1'45"	18V

Installation Guidelines

Warning

INJECTO® 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 DE NEEF® technical bulletin for your application.

Catalyst

Shake catalyst can 2-3 minutes. Pour the desired amount of INJECTO® PURe into a clean dry pail. Measure 1% Flex Cat PURe 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. (1 catalyst can capful=0.5 oz; 1.3 oz/gal resin = 1%)

Injection

Injectable tubes should be adequately flushed with water prior to the injection of grout. 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. See INJECTO® Grout Tube Installation procedures for more detail.

Extreme conditions

For application procedures in extreme temperatures and specific environments or equipment recommendations call the GCP Applied Technologies 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.

Properties

INJECTO® **PURE RESIN**		
Solids	100%	ASTM D2369
Viscosity	200 cps at 77°F	ASTM D2196
Color	Pale yellow	
Density	1.02 g/cm^3	ASTM D4659
Flashpoint	>270°F	ASTM D93
Corrosiveness	Non-corrosive	

FLEX CAT PURE		
Viscosity	15 cps at 77°F	ASTM D2196
Color	Cleaer to pale gray	
Flashpoint	221°F	ASTM D93

INJECTO® **PURE CURED**		
Density confined	1.00 g/cm^3	ASTM D3574
Density free	about 3 PCF	ASTM D3574
Tensile strength	>174 psi	ASTM D3574
Elongation %	100	ASTM D3574

Packaging & Handling

INJECTO® PURE	FLEX CAT PURE
5 gallon metal pail	25 fl. oz. in 1 qt. metal cans
50 gallon metal drum	

INJECTO® 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.

Limitations

Low temperatures will significantly affect viscosity. INJECTO® 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.

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.

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GCP Applied Technologies, 20 Moores Road, Malvern, PA 19355, USA.
GCP Canada, Inc., 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6.
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ca.gcpat.com/solutions/products/de-neef-waterproofing-injection-solutions/de-neef-injecto-pure