SPETEC® HIGHFOAMER

Fast Reacting High Foaming Semi-Rigid Injection Resin for Sealing Gushing Leaks and Filling Voids

TECHNICAL DATA

Description

Spetec® HighFoamer is a one component, closed cell, hydrophobic, water reactive, solvent and phthalate free, low viscosity polyurethane injection resin. Gen Cat or Gen Cat Fast is required with HighFoamer for proper formation and to adjust set times for different applications. *Formerly Spetec PUR HighFoamer.*

Uses

- Water cut-off of large flow and high pressure water leaks
- Curtain grouting for below-grade structures
- Crack and gravel layer injections
- Soil stabilization and anchors in porous geology
- Sealing and stabilizing stormwater and sewer systems
- Probe grouting for below grade pipes
- Void filling

Advantages

- Single component
- Adjustable reaction times
- Semi-rigid high strength
- Low viscosity
- Up to 50x expansion
- NSF/ANSI/CAN 61 Certified (approved for contact with drinking water)

Physical Properties - Uncured		
Appearance	Brown liquid	—
Viscosity at 77°F (25°C)	215 cP (215 mPa·s)	ASTM D4878
Density at 77°F (25°C)	69.9 lbs/ft³ (1.12 kg/dm³)	EN ISO 2811-1
Physical Properties - Cured		
Density Free Rise	1.2 lbs/ft³ (0.019 kg/dm³)	ASTM D3574
Compressive Strength (with Fine Sand)	Up to 1,803 psi (12.4 MPa)	ASTM C-39
Shrinkage	Negligible	ASTM D-1042/D-756
Tensile Strength	43 psi or 6,192 psf (296 kPa)	ASTM D-1623
Tensile Elongation	3.80%	ASTM D-1623
Alchatek Gen Cat		
Appearance	Yellow-orange liquid	—
Viscosity at 77°F (25°C)	75 cP (75 mPa·s)	ASTM D4878
Density at 77°F (25°C)	65.5 lbs/ft³ (1.05 kg/dm³)	EN ISO 2811-1
Flash Point	313°F (156°C)	—
Alchatek Gen Cat Fast		
Appearance	Yellow-orange liquid	—
Viscosity at 77°F (25°C)	70 cP (75 mPa·s)	ASTM D4878
Density at 77°F (25°C)	65.5 lbs/ft³ (1.05 kg/dm³)	EN ISO 2811-1
Flash Point	313°F (156°C)	—

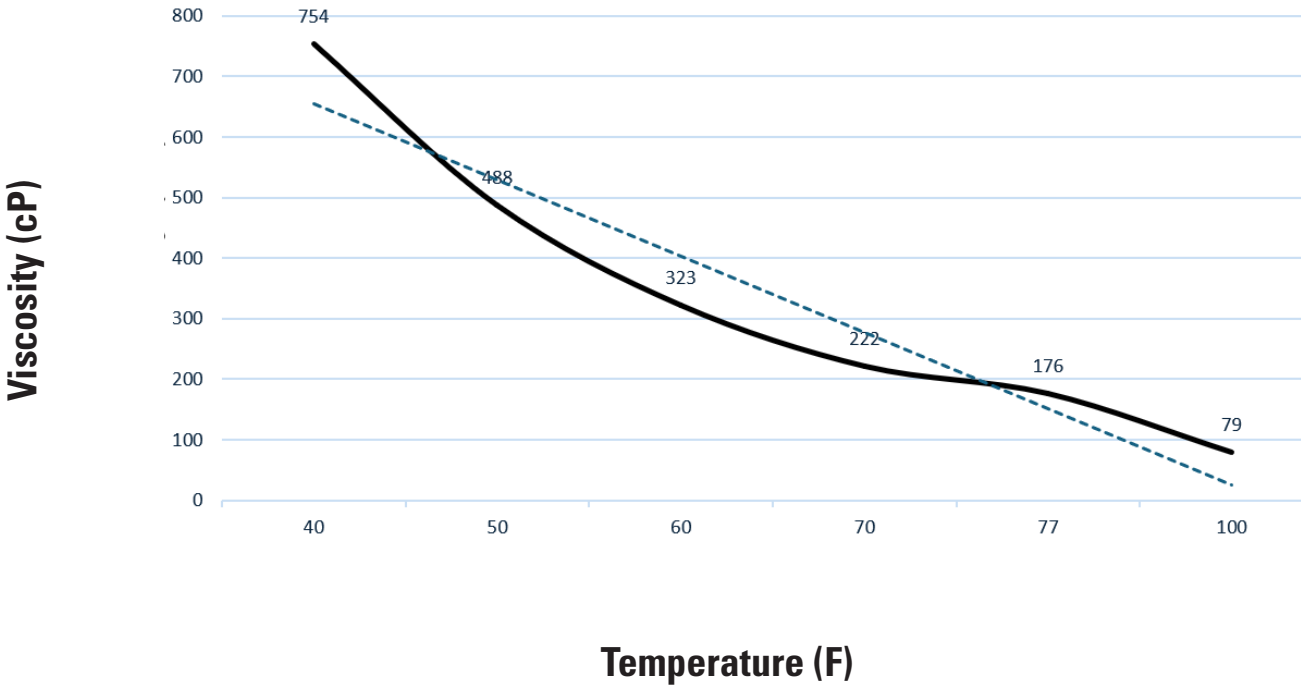
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Alchatek Gen Cat						
	41°F (5°C)		59°F (15°C)		77°F (25°C)	
%	Start	End	Start	End	Start	End
5	18 sec.	95 sec.	18 sec.	78 sec.	14 sec.	55 sec.
8	15 sec.	60 sec.	14 sec.	51 sec.	10 sec.	43 sec.
10	15 sec.	48 sec.	11 sec.	41 sec.	8 sec.	35 sec.

Alchatek Gen Cat Fast						
	41°F (5°C)		59°F (15°C)		77°F (25°C)	
%	Start	End	Start	End	Start	End
5	19 sec.	75 sec.	14 sec.	57 sec.	9 sec.	43 sec.
8	15 sec.	40 sec.	10 sec.	35 sec.	7 sec.	30 sec.
10	10 sec.	35 sec.	8 sec.	28 sec.	5 sec.	22 sec.

Viscosity vs Temp - Spetec HighFoamer



Storage and Shelf Life

Store between 50–80°F (10–26°C). Shelf life is 24 months in unopened containers stored within this temperature range.

Estimating Quantities

Consumption is dependent on jobsite conditions such as amount of water, thickness of concrete, temperature, amount of catalyst, and expansion rate listed in Reaction Times.

Application and Safety Precautions

When applying Alchatek polyurethane systems, always wear appropriate personal protective equipment and avoid contact with eyes and skin. Review the Safety Data Sheet at Alchatek.com before use. The recommended application temperature range is 34-95°F (1-35°C). Excessive foam build-up in confined spaces can result in high internal temperatures and expansion pressures. In large void fills, stage injections and allow cooling time between lifts. For step-by-step procedures and typical project setups, see the Crack Injection, Curtain Grouting, Deep Lock® Soil Stabilization, and Void Filling application guides. For safety and application guidance, contact the Alchatek Technical team.

Packaging

Alchatek Gen Cat is packaged in 0.5 gallon (1.89 liter) bottles and 5 gallon (18.9 liter) pails.

Supplier Details

Alchatek
4508 Bibb Blvd
Tucker, GA 30084
T: (404) 618-0438

Emergency Phone Numbers

Call CHEMTREC
Day or Night
1-800-424-9300
+1 703-527-3887

Limited Warranty
Alchatek warrants this product to be free from manufacturer's defects and to meet all published properties on current Technical Data Sheet for a period of one year if used according to published instructions and within the shelf life. The user is responsible for determining suitability for intended use and assumes all risk. No other warranties expressed or implied shall apply including any warranty of merchantability or fitness for a particular purpose. Purchaser's sole remedy is limited to the purchase price or product replacement exclusive of cost of labor or other materials.

Latest Information
Before each use read latest Technical Data Sheets, Safety Data Sheets, and instructions available at Alchatek.com. Nothing contained in any Alchatek materials or verbal instruction relieves the user of the obligation to read and follow all usage instructions and warnings for each product contained in the latest Technical Data Sheets and Safety Data Sheets. All information given by Alchatek about Alchatek products and procedures is given in good faith based on our current experience level and knowledge when materials are properly stored, handled, and applied. Jobsite conditions always vary, and for this reason Alchatek assumes no liability for the provision of such information or instructions. Neither shall any legal relationship be created by the provision of such information.

FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. READ MATERIAL SAFETY DATA SHEET PRIOR TO EVERY USE.

Properties will vary depending on application conditions.