

HI-TECH Systems

HT120LV Hydrophobic Injection Grout

Product Description:

Hi-Tech HT120LV is a low viscosity, 100% solids hydrophobic polyurethane injection grout designed to seal actively leaking cracks or joints commonly found in concrete structures. The Hi-Tech HT120LV is mixed with the Hi-Tech accelerator HT-Cat at a mandatory 2-20% by volume. The product will expand when in contact with water, the percentage of accelerator added will influence the products reaction and will allow the installer to adjust the products reaction to suit the specific job site conditions. The end result is a semi-rigid, closed cell foam providing a watertight seal. Because the product is hydrophobic it is not affected by wet or dry cycles and will not swell or shrink.

Typical Applications

- Basements
- Elevator Pits
- Manholes, Vaults
- Parking Structures
- Soil Stabilization
- Tunnels, Dams
- Waste Water Treatment plants

Advantages:

- 100% Solids
- Adjustable Reaction Times
- Free Rise Expansion 25 times
- Pumped as a Single Component
- Stops Gushing Water
- Will not Dilute in Water

Reactivity:

Hi-Tech HT-Cat	Gel Time in Seconds
2%	140
4%	90
8%	45
12%	35
16%	35

Gel times at 77°F (25°C)

Processing:

Start with a quantity of Hi-Tech HT120LV that can be used in a reasonable amount of time, pour into a clean container. Add the appropriate amount of accelerator based on the job site conditions, mix adequately. The premixed Hi-tech HT120LV is now ready to be injected using a single component injection pump, to avoid a reaction in the pump it is vital that the equipment be dry and free from moisture. The percentage of accelerator added has a direct effect on the products reaction, the typical mix ratio is 5-10% of accelerator added by volume, the ratio can be as low as 2% for a delayed reaction and as high as 20% for a faster reaction as needed in a high-pressure application. Contact your Hi-Tech Representative for application information and/or equipment recommendations.

Limitations:

Temperatures will affect the products viscosity and reaction time. Hot/warm materials and/or temperatures will decrease the reaction or working time and will lower the viscosity of the product. Cold materials and/or temperatures will increase the reaction or working time and will increase the viscosity of the product. The Hi-Tech HT120LV is moisture activated,(it is of the utmost **importance**) that all injection equipment remain dry, never pump water with your injection pump. Avoid any water or moisture contact with the mixed product or open containers.

Precaution:

Always use protective clothing, gloves and goggles consistent with OSHA regulations. Avoid eye and skin contact. Do not ingest. Refer to Material Safety Data Sheet for detailed safety precautions.

Packaging:

Hi-Tech HT120LV	Hi-Tech HT-Cat
• 1 Gallon Container	• .1 Gallon Container
• 5 Gallon Container	• .5 Gallon Container
• 55 Gallon Container	• 5 Gallon Container

Properties of Cured Product:

	<u>Value</u>	<u>Measurement</u>
Compressive Strength (Soil Stabilized Material)	>1500	psi.
Elongation	5-10	Percent ASTM D638
Expansion	2000-2500 (20-25 times)	Percent
Free-Rise Density	9 ± 1 (0.144 ± 0.016)	Lbs/ft ³ (g/cc)
Shrinkage by Volume	0	Percent
Shrinkage by Weight	0	Percent
Tensile Strength	250 ± 100	psi ASTM D638
Toxicity	Non-Toxic	

Warranty:

HI-TECH warrants its products to be free of manufacturing defects and that they will meet HI-TECH's current published physical properties when applied in accordance with HI-TECH's directions and tested in accordance with ASTM and HI-TECH's standards. There are no other warranties by HI-TECH of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. HI-TECH Corporation shall not be liable for damages of any sort, including remote or consequential damages, resulting from any claimed breach of any warranty, whether expressed or implied, including any warranty of merchantability or fitness for a particular purpose or from any other cause whatsoever