

"A Worldwide Standard in Chemical Grouting"

## Spetec PU H100 Hydrophobic Polyurethane

### DESCRIPTION

PU H100 is a phthalate free, solvent free, closed cell, hydrophobic polyurethane chemical grout designed to shut off gushing leaks in a wide range of waterproofing and consolidation applications. PU H100 is environmentally friendly and resistant to biological attack.

### APPLICATIONS

- Water cut off
- Dams
- Tunnels
- Curtain Wall grouting
- Soil/Gravel modification
- Manholes
- Pipeline/Storm culverts
- Probe grouting
- Sealing static/dynamic cracks
- Below grade structures
- Light weight void fill
- Combination grouting with Cementitious grouts

### ADVANTAGES

- Single component
- Adjustable reaction time
- Good compression strengths
- No volatile solvents
- Reaction with water results in a rigid foam

### PROCEDURE

Injection Equipment can range from airless pumps to larger air driven pumps depending on volume needed. Consult Resiplast technical service or the local area representative for further information.

### MIXING

Spetec PU H100 should be mixed with the accelerator, ACC H100, in ratio's ranging from 2% to 10%. Higher percentage of accelerator will create faster set times and larger expansion. Ambient temperature, substrate temperature and water temperature will also affect the set time of the material. It is recommended that the chemical grout be poured into an open top container and then the appropriate amount of accelerator added. Accelerator should be mixed into the chemical grout using paint stick, mixing paddle or drill type mixing equipment. Before using the accelerator, ACC H100, it is recommended the accelerator jug be shaken well to ensure the mixture is in a uniform state. Once mixed with the grout a field cup test should be taken to determine reaction time of mixed material.

### PACKAGING

Resin: Packaged in 45 gallon drums, 5 gallon pails and 10.5 ounce cartridges (Hot Shots)  
Accelerator: Packaged in 0.5 gallon polyethylene bottles.

## PROPERTIES

<b>PU H-100, uncured pre-polymer resin</b>			
Appearance		Brown liquid	
Viscosity at 77°F	ASTM D4878-98	150 ± 20	cps
Flashpoint	ASTM D1310-86	>302	°F
Relative Density at 77°F	ASTM D3505-96(2000)	1.058 ± 0.005	
<b>H-100 ACC, Accelerator for PU H-100</b>			
Appearance		Yellow liquid	
Viscosity at 77°F	ASTM D4878-98	12 ± 5	cps
Flashpoint	ASTM D1310-86	>302	°F
Relative Density at 77°F	ASTM D3505-96(2000)	.9 ± 0.003	
<b>PU H-100 + Accelerator cured</b>			
Hardness	ASTM D2240-00	69	Shore A
Tensile Strength	ASTM D3574-03	290	psi
Compressive Strength	ASTM D4219-93a	942	psi
Density Confined	ASTM D3574	55	Lbs/cu.ft.
Water Absorption	ASTM D2824	<1	%
Corrosiveness	Non Corrosive		
Expansion		18X (1800%)	

## ACTIVATION TIMES

Spetec PU H100 is designed to fill voids and shut off gushing leaks. When mixed with various amounts of ACC H100 Accelerator, set times can be adjusted.

Temp.	% ACC	Cream	Full Rise
77° F	2	35 sec.	110 sec.
	6	25 sec.	75 sec.
	10	18 sec.	50 sec.

## SHELF LIFE

Spetec PU H100 is sealed under dry nitrogen. Stored at 68°F in the original unopened containers, shelf life is at least 12 months. Once opened, containers should be used as soon as possible.

## SAFETY PRECAUTIONS

Avoid any contact with skin or eyes.

Follow safety precautions as indicated on our separate Safety Data Sheet.

REACH compliant.



*The information in this data sheet has been given in good faith but without warranty. The application, use and processing of the products are beyond our control and therefore entirely your responsibility. Should, in spite of this, liability be established for any damages, it would be limited to the value of the goods delivered by us and used by you. We will of course provide products of consistent quality.*

Date: 05/18/2015