

## SINGLE COMPONENT GEL PUR GT1100

### DESCRIPTION

- Solvent free gel forming Polyurethane prepolymer. Phthalate free.

### APPLICATIONS

- Injection resin for water cut-off in concrete and masonry structures, even when strong seepages or gushing water is encountered.

### ADVANTAGES

- PUR GT 1100 is cured by reaction with water; it is a dispersible and hydrophilic polymer. Depending on the amount of water in the mixture, PUR GT1100 yields end products varying in consistency from strong elastic rubber-like foams to stable gels containing up to 700% water.
- In the range from 200% up to 500%, hydrophilic foams with decreasing strengths are obtained. In this range PUR GT1100 can be applied as a one-shot single component system with approx. the same effect as PUR F1000, but yields a hydrophilic foam which tends to absorb water even after curing. Due to this phenomenon, swelling takes place that ensures an important degree of added mechanical sealing. These systems are used in situations where a flexible joint is called for, even when there is a considerable inflow of water. If necessary PUR GT1100 can be accelerated by means of PUR F1000 Accelerator.
- In the range from 500% up to 700%, stable gelatinous masses are generated within seconds. In this range the system is applied by means of a two-shot injection technique. Applications for these systems vary from packer-type sewer grouting to economical soil stabilization.
- Solvent-free system: the end product is harmless to the environment and resistant against biological attack.

## PROPERTIES

<b>PUR GT1100, uncured Polyurethane prepolymer containing reactive isocyanate groups</b>			
Appearance		yellow liquid	
Viscosity at 77°F	ASTM D4878-98	800 ± 200	mPa.s
Flashpoint T.O.C.	ASTM D1310-86	>302	°F
Relative Density at 77°F	ASTM D3505-96(2000)	1.15	

## AVAILABILITY

PUR GT1100 and PUR F1000 ACC are very hygroscopic; therefore the material is packed under dry atmosphere.

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.

PUR GT1100 comes packed in 5 gallon metal pails.

PUR F1000 ACC comes packed in 0.5 gallon polyethylene bottles.

## PROCEDURE

Before using PUR F1000 ACC always shake well to make sure the mixture is homogeneous. Mix PUR GT1100 and PUR F1000 ACC in the chosen ratio (from 2% to 10% if necessary). Normal injection pumps can pump the mixture into an appropriate single-shot injection system. For gel generating applications two-component equipment is required.

## SAFETY PRECAUTIONS

Avoid any contact with skin or eyes.

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



## REACH complaint

*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.*

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