

# NEOFERMA

## PUR-X<sup>®</sup> Soil

### ULTRA LOW VISCOSITY, HYDROPHOBIC, SOIL INJECTION RESIN

#### Product Description

PUR-X<sup>®</sup> SOIL is a single component, hydrophobic, water reactive, solvent and phthalate free, ultra low viscosity polyurethane injection resin.

PUR-X<sup>®</sup> SOIL is especially designed for soil applications, such as coagulation, stabilisation, strengthening and waterproofing.

#### Uses

- Soil strengthening
- Soil coagulation
- Soil stabilisation
- Fixing of ground anchors
- Probe grouting
- Curtain grouting

#### Benefits

- Single component, easy application.
- Very low viscosity for easy soil penetration.
- Very long reaction times that can be varied to suit by adjusting the amount of catalyst.
- Environmentally friendly product.
- High mechanical and chemical resistance of the cured polyurethane.

#### Physical Properties

##### PUR-X<sup>®</sup> SOIL Resin

Appearance: Amber yellow resin  
Viscosity: 42 cPs @ 21°C  
Density: +/- 1.05 kg/dm<sup>3</sup>

##### PUR-X<sup>®</sup> SOIL Catalyst/Accelerator

Viscosity: 22 cPs @ 21°C  
Density: +/- 0.92 kg/dm<sup>3</sup>  
Flash Point: > 150°C

#### Reaction Times

PUR-X <sup>®</sup> Soil Cat	15°C		20°C		25°C	
	Start	End	Start	End	Start	End
0.5%	600"	2,000"	550"	1,900"	520"	1,800"
2%	250"	560"	220"	450"	180"	350"

#### Installation Guide

PUR-X<sup>®</sup> SOIL can be injected via strainer pipes or Tubes-à-Manchettes (TAM-pipes). Determine the strainer or TAM pattern and install the necessary probes accordingly at the right interval and correct depth. Make sure that the injection pump is fully operational. Dependent upon the job, high volume pumps may be more suitable. Connect the pump to the first probe. The starting point of the injection depends on the actual site conditions.

Start the injection at a low pressure. Increase the pressure until the resin starts to flow into the injection probe (strainer or TAM). Inject the correct pre-determined amount of resin. For TAM pipe injection, move up the packer to the next injection sleeve after the correct amount of resin has been injected. For a strainer pipe, move to the next pipe when the correct amount of resin has been injected.

Continue until the whole injection matrix has been covered and injected.

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### Technical Service

The Neoferma International Technical Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

### Packaging

PUR-X<sup>®</sup> SOIL is packed in:

- 20 kg metal can
- 200 kg metal drum
- 1,000 kg IBC

PUR-X<sup>®</sup> SOIL CAT is packed in plastic bottles of 2 kg or jerry can of 25 kg.  
(other packaging formats are available on request)

### Storage and Shelf Life

PUR-X<sup>®</sup> SOIL is hydro-active and should be shielded from moisture.

Storage temperature should be between 5 and 40°C.

Shelf life of the resin: 24 months in original packaging.

Shelf life of the accelerator: 24 months in original packaging

Once opened, containers should be used as soon as possible.

### Health and Safety

Avoid contact with eyes and skin, always use personal protective equipment in compliance with local regulations.

Read the relevant Material Safety Data Sheet before use. Material Safety Data Sheets are available on [www.neoferma.com](http://www.neoferma.com)

### Statement Of Responsibility

The information listed in this technical data sheet does not imply any warranty. All information in this document is to the best of our knowledge and experience; all of the information above must always be taken as merely indicative and subject to confirmation by the manufacturer. Anyone intending to use this product must ensure beforehand its suitability for the envisaged application. The user is always fully responsible for any consequences deriving from the use of this product. Furthermore, no warranty is given or implied in connection with any recommendations or suggestions made by the manufacturer or any of his representatives, agents, distributors.

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