

NEOFERMA

PUR-X[®] Anchor

DUAL COMPONENT, HIGH STRENGTH, POLYURETHANE INJECTION RESIN

Product Description

PUR-X[®] Anchor is a dual component solvent and phthalate free polyurethane injection resin. PUR-X[®] Anchor is especially designed for high strength applications like rock-bolt anchoring, void fillings that requires high mechanical strengths, load bearing applications, etc.

Uses

- Fixing of ground anchors
- Void filling with high mechanical strengths
- As binder in repair mortars where it can be mixed with aggregates like sand, cement or gypsum
- Soil strengthening
- Soil stabilisation

Benefits

- Extreme mechanical properties
- Long reaction times extending the pot life of the product so it can be injected with a normal single component injection pump
- Environmentally friendly product.
- High chemical resistance of the cured polyurethane

Physical Properties

PUR-X[®] Anchor - Part A

Appearance: Brown liquid
Viscosity: 200 cPs @ 25°C
Density: 1.23 kg/dm³

PUR-X[®] Anchor - Part B

Appearance: Grey liquid
Viscosity: 4,300 cPs @ 21°C
Density: 1.06 kg/dm³

Reaction Times at 25°C

Recommended Mixing Time: 4 minutes
Pot Life: 20-25 minutes
Initial Gelling time: 30-40 minutes
Cure time to Service: 30-40 minutes
Curing time to full strength: 7 days

Cured Properties

Shore Hardness	DIN 53505	55 +/- 5D
Tensile Strength	DIN 53455	13-14 N/mm ²
Young's Modulus	DIN 53455	65-70 N/mm ²
Elongation	DIN 53455	50-60%
Adhesion to Steel	DIN 53232	26 N/mm ²
Tear propagation	DIN 53515	35 kN/m
Taber Abrasion Resistance	DIN 53754	75 mg
Water Vapor Transmission	E 96-05 (B)	0.015 g/m.hr 0.36 g/m.24hr
Water Absorption	AS 3558.1	0.14%

Consumption

PUR-X[®] Anchor is a non-expanding polyurethane injection grout; the actual volume to be filled is the volume to be injected.

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Installation Guide

PUR-X[®] Anchor is a dual component Polyurethane system that needs to be mixed in a volume ratio of 1 to 3.

Part A being the Isocyanate (1-part Volume)

Part B being the Polyol (3-part Volume)

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[®] Anchor is packed in an 18 kg (16.3 litres volume) set consisting of:

- 5 kg Part A brownish liquid (isocyanate)
- 13 kg Part B greyish liquid (polyol)

Storage and Shelf Life

Storage temperature should be between 5 and 40°C

Shelf life of the resin: 12 months in original packaging – extendable to 24 months if storage temperature is between 20 and 30 °C

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

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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