

AVINJECT 1C SOIL

Solvent-free polyurethane injection resin for soil stabilization. Harmless for the environment and resistant to biological influence.

Applications

AVINJECT IC SOIL polyurethane injection system is a one component solvent free, very low viscosity prepolymer ideally suitable for soil stabilization. In some circumstances can be used for crack repair in concrete. The generation of carbon dioxide gas will virtually improve the viscosity and make the resin penetrate in the finest sand. Reacted with water, it will form a very rigid polyurethane which yields a hydrophobic and chemically resistant conglomerate with the substrate (well saturated ground layers). A good compression strength is achieved in a very short time without shrinking or swelling.

Storage

The AVINJECT 1C Soil components are very stable materials when properly handled. To avoid problems, it is very important to understand that these materials are both temperature and moisture sensitive. Therefore, materials should be stored in an area with temperatures not exceeding 30°C or not lower than 10°C. The maximum shelf life is 2 years. All partially used drums should be covered by nitrogen and re- sealed to prevent the ingress of moisture.

Reaction time

Quantity of catalyst	Reaction
0,5%	9-11minutes
1,0%	5-6 minutes
2,0%	2-3 minutes

Packing

Resin: 25kg Drum 220 kg Drum 1000kgIBC

> Catalyst: 0.5 L 5L 25L

Technical Data

UNCURED POLYURETHANE PRE- POLYMER		
Colour	Brown	
Aspect	Liquid	
Relative density at 25 •c	1,12 kg/1	
Flashpoint	> 150 ·c	
Viscosity at 25 •c	<25 mPa.s	
Shelf life at 20 •c	12 months	

PHYSICAL CONSTANTS OF THE CATALYST	
Colour	Transparent
Aspect	Liquid
Relative density at 25 •c	0,98 kg/1
Flashpoint	> 150 · c
Viscosity at 25 • c	21 mPa.s

CHARACTERISTICS OF THE CURED PRODUCT		
Compressive strength	ca.12 MPa	
Flexural strength	ca. 2 MPa	
Density	ca. 1,1kg/dm ³	



Avenex Chemical Technologies LLP.

92 Venus Apts, Altamount Rd, Mumbai 400 026. Tel: +91(22)66627509. Fax: 66624572