

AVINJECT 116 EF

One component solvent free polyurethane injection system and hydrophobic in nature. Reaction with yields a semi rigid polyurethane foam which is to be injected with 1C injection pump & with use of 6-10% of catalyst

Application

- ❖ Suitable for crack injection
- ❖ Sealing of water leaks in concrete & masonry structure
- ❖ High water ingress
- ❖ Compressive Strength – 48 MPa

How to use it

Shake the catalyst well before use.

Mix the resin & catalyst of ratio 6% to 10 % with respect to desired reaction speed. For injection use packer and 1C injection pump. Avinject 116 EF is a very hygroscopic & packed in dry atmosphere. Use open container within a week or recap under dry nitrogen.

Safety & precautions

- ❖ Do not breathe dust/fume/gas/mist/vapor/spray
- ❖ In case of improper ventilation wear respiratory protection
- ❖ Wear protective gloves/clothing and eye & face protection
- ❖ **If in eyes:** Rinse cautiously with water for several minutes, remove contact lenses, if present & easy to do. Continue rinse.
- ❖ **If on skin or Hair:** - Take off immediately all contaminated clothing. Rinse skin with water & shower

Reaction time

Quantity of catalyst	Reaction	Polymerisation
6%	15 sec	70 Sec
8%	12 sec	55 Sec
10%	9 sec	45 Sec

Free Foam Expansion = 4000 %

Packing

25 kgs resins & 2.5 kg catalyst

Storage

To avoid the problems, one must understand that both the products are temperature & moisture sensitive. Therefore, material must be stored in a temperature does not exceed 30°C or not lower than 10 °c

Shelf life is 1 yr. & all drums that are partly used must be covered by nitrogen & resealed to prevent ingress of moisture

Technical data

Physical characteristics of Catalyst		
Subject	Value	Norm
Density	0.889 g/cm ³	EN ISO 2811-2-2002
Viscosity	21 mpa.s	EN ISO 3219:1994
Flash point	≥ 150°C	
Colour	Transparent	

Physical characteristics of uncured polyurethane prepolymer		
Subject	Value	Norm
Density	1.160 g/cm ³	EN ISO 2811-2-2002
Viscosity	96 mpa.s	EN ISO 3219:1994
Isocyanate	18.1 M %	EN 1242:2006
Flash point	≥ 150°C	
Colour	Brown	