

One component, solvent free, polyurethane injection system ideally suitable for water cut-off in wet dynamic cracks and joints. Reaction with water yields a very flexible polyurethane foam. Injected with a one-component pump. Use with 6 to 10% catalyst.



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EN 1504-5

Concrete injection product
U (D1) W (3) (2/3/4) (5/30)

HOW DOES PURINJECT 1C FLEX WORK?

The reaction speed can be adapted easily by varying the accelerator or catalyst content from 6% to 10%. The more catalyst is added, the faster the reaction velocity. The reaction with water yields a flexible polyurethane foam with closed cells. The end product, injected under pressure, neither shrinks nor swells. A good compression strength is obtained in very short time. Free expansion 1500%. Best to inject the resin with a certain counter pressure.

APPLICATION PRESCRIPTIONS

Shake well the catalyst. Mix the resin and the accelerator in a ratio of 6% to 10% in function of the desired reaction speed. Injection using packers and a 1 component pump. (manual or automatic). PURINJECT 1C FLEX is very hygroscopic and packed under dry atmosphere. Use opened containers as soon as possible or recap under dry nitrogen. Pumps should be cleaned with PURCLEAN, a cleaning product specially developed for cleaning of polyurethane injection pumps.

TECHNICAL DATA

Physical characteristics of the uncured polyurethane prepolymer		
Subject	Value	Norm
Density	1,08 g/cm ³	EN ISO 2811-2:2002
Viscosity	± 245 mPa.s	EN ISO 3219:1994
Isocyanate	7,7 M.-%	EN 1242:2006
Flash point	> 150 °C	
Colour	Yellow	

Physical characteristics of the catalyst		
Subject	Value	Norm
Density	0,913 g/cm ³	EN ISO 2811-2:2002
Viscosity	7,4 mPa.s	EN ISO 3219:1994
Flash point	> 150 °C	
Colour	Transparent	

REACTION TIME

Quantity of catalyst	Reaction	Polymerisation
6%	30 seconds	115 seconds
8%	25 seconds	90 seconds
10%	20 seconds	75 seconds

Indication at 20°C. Free expansion: 1500% of starting volume.

PACKAGING

Standard packaging:

- 25 kg resin and 2,5 litre catalyst
- 10 kg resin and 1 litre catalyst

Other type of packaging available on request. Can be supplied under private label.

STORAGE

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 partly used drums should be covered by nitrogen and resealed to prevent the ingress of moisture.

SAFETY AND HEALTH PRECAUTIONS

For more information, consult the safety data sheet.