

One component, pre-catalysed, polyurethane injection system ideally suitable for crack injection/water leaks in concrete and masonry structures. Reaction with water yields a semi-rigid polyurethane foam (slightly flexible). To be injected with a one-component pump.

HOW DOES PURINJECT 1C QUICK FIX WORK?

Reaction with water yields a polyurethane semi-rigid foam (slightly flexible). The formation of CO₂ makes the foam penetrate very well into the cracks. PURINJECT 1C QUICK FIX is a pre-catalysed system. In case it is necessary to increase the reaction speed, 1 to 3% PURINJECT 1C QUICK FIX CAT can be added to obtain the desired reaction speed. A good compression strength is obtained in a very short time. Free expansion: +4000%.

APPLICATION PRESCRIPTIONS

The reaction speed can be accelerated by adding 1 to 3% PURINJECT 1C QUICK FIX CAT. Make sure to mix the resin and catalyst very well. PURINJECT 1C QUICK FIX 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	1,04 g/cm ³	EN ISO 2811-2:2002
Viscosity	36 mPa.s	EN ISO 3219:1994
Isocyanate	18,1 M.-%	EN 1242:2006
Flash point	> 150 °C	
Colour	Brown	

Physical characteristics of the catalyst		
Subject	Value	Norm
Density	0,98 g/cm ³	EN ISO 2811-2:2002
Viscosity	17 mPa.s	EN ISO 3219:1994
Flash point	> 150 °C	
Colour	Transparent	

Characteristics of the cured material		
Subject	Value	Norm
Density	1,170 g/cm ³	BS EN ISO 1183:2019
Flexural strength	ca 12,5 N/mm ²	BS EN 196-1:2016
Compressive strength	ca 12 N/mm ²	ASTM C109/C109M: 2016a

REACTION TIME

	PURINJECT 1C QUICK FIX	+ 1% PURINJECT 1C QUICK FIX CAT	+ 2,5% PURINJECT 1C QUICK FIX CAT
Start of reaction	10 seconds	9 seconds	8 seconds
Polymerisation	50 seconds	45 seconds	40 seconds

Indication at 20 °C. Free expansion: 4000% of starting volume.

PACKAGING

Standard packaging:

- 25 kg resin and 0,5 litre catalyst
Pallet: 600 kg resin and 12 litres of catalyst
- 10 kg resin and 0,2 litre catalyst
Pallet: 750 kg resin and 15 litres of 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 one year. 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.